

VOL. XVIII.

ST. LOUIS, MO., NOVEMBER 1, 1866.

NUMBER 21.

PUBLISHED BY NORMAN J. COLMAN. EDITOR AND PROPRIETOR, 97 Chesnut Street, St. Louis, Mo.

Special Contributors for 1866 WILLIAM MUIR,
CAREW SANDERS,
FRANCIS GUIWITS. DR. E. S. HULL

COLMAN'S RURAL WORLD.

Is devoted to the promotion of the Acricultural, Horticultural and Stock INTERESTS OF THE VALLEY OF THE MISSISSIPPI.
It is issued on the 1st and 15th of every month, in quarto form, each number containing 16 pages, making a volume of 384 pages yearly. Terms—\$2.00 per annum in advance; Four copies, \$6; Ten copies \$15,

and a Premium of Five Concond Grape Vines to any one sending the names of Four subscribers and \$6; and Fifteen CONCORD Grape Vines to any one sending the names of Ten Subscribers and \$15.

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#### Soils and Manures for Wheat.

Wheat, above all other crops, requires a dry soil, consequently land drainage is of the utmost importance in wheat cultivation. Spring crops are generally put in after the spring rain has disappeared, and when the soil is comparatively dry; but winter wheat must remain in the soil during the heavy rains of the fall-the freezings of early spring. After these come the spring rains and the overflowing of water produced by the melting snow. Great precaution is necessary in order to protect this crop from destruction from stagnant water in fall and spring. There is scarcely any field so completely level as not to afford a sufficient fall for carrying off the water; this should be taken advantage of, and if no other mode of drainage has been adopted, surface drains

in light soils which have been exhausted by fre- portion of nitrogen in the manure.

quent cropping and lack that cohesiveness and strength which the wheat plant requires .-Shallow plowing is also a cause of this failure. Land which has been drained and sub-soiled. is not subject to heaving, as the soil, having been deepened and the stagnant water removed, the roots of the wheat are enabled to strike deep, and to fix the plants firmly in the soil. It is a well known fact, that although the majority of the roots of wheat are found near the surface, certain others (if the soil admits of their doing so) penetrate deep into the earth in order to take a firm hold of the ground and to draw up the food of the plants.

wheat soils, yet excellent crops may be raised on light, sandy soil, if suitable manure has been applied. Previous to the introduction of the turnip into the husbandry of Great Britain, stiff clay soil was alone thought suitable for the production of wheat, and fallowing was the revolution in the British system of husbandry. Naked fallows have disappeared; green crops supply their place; a regular and judicious system of rotation has been established, and soils so light as to bear the denomination of "blowing sands," have been consolidated and fertilized.

Wheat delights in new soil, but it is necessary that the roots of the grasses, etc., should be thoroughly decomposed in order to prevent frosts of winter, and the alternate thaws and their growth, and also to furnish food for the young wheat plants. Land that has been for some time in tillage and then laid down in good heart and allowed to remain for a series of years in grass, will produce a better crop of wheat than wild soil-that is soil that has never produced a cultivated crop. Manures which abound in nitrogen are best suited for wheat. Professor Johnston proved this by experiments which are recorded in his Lectures on Agricultural Chemistry. If we take a wheat plant should be made through all portions of the field and examine the composition of the flour it where there is the least probabilty that water contains, as raised from the application of different manures, it will be found that its gluten, Much wheat is lost annually by being heaved which contains a large per-centage of nitrogen,

We may understand the properties of a certain manure, and yet not be able to apply it properly. If we make use of an abundance of ammoniacal manure, the stem and leaves of the wheat plant will become so large and succulent that the roots will not be able to support them, and they will fall down and fail to produce a crop; we must remedy this evil by making use of a manure that will give strength to the stem and weight to the grain.

It has been demonstrated by numerous analyses that silica predominates in the straw of of v heat, and that potash and phosphoric acid exist in the grain, and a certain portion of Heavy, clay lands have been denominated lime in both straw and grain. It is evident that the soluble silica which is absorbed by the straw should be given back to the soil, by turning the straw into manure instead of selling it in the market.

Wood ashes contain a large proportion of potash, and consequently are an excellent maorder of the day; but the turnip has caused a nure for wheat, or any other crop in which potash abounds. If all the ashes that are made in the house and on the farm were carefully collected, mixed with muck, and spread over the wheat crop, a large increase in the acreable product would be the result.

> Lime imparts health and vigor to the stem and grain, and a portion of it should be applied to land intended for wheat. It assists in dissolving silica and the phosphates-counteracts the effects of certain acids, and in various ways improves the growth of the wheat plant. A small quantity of lime mixed with muck or pich soil, will have a much better effect as manure than a much larger quantity applied without the addition of any other substance. Prof. Johnston says: "Lime acts in two ways on the soil. It produces a mechanical alteration, which is simple and easily understood; but it is the cause of chemical changes which are really obscure, and are as yet susceptible of only partial explanation."

Salt is a valuable manure for the wheat plant, and a portion of it should always be applied, either directly to the soil or as top-dressing to the young crop. Lime and salt hasten up by the frost. This seldom happens except is invariably increased by the increased pro- the decay of weeds and vegetables in a greater degree than either of these manures taken sin-

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gly. Liebig says: "Common salt enables the plant to extract sulphur from the ground, safely affirm that a clear saving of one-half can where it has existed as sulphate of lime."-The grain of the cereal crops is much improved in size and color by the judicious application advantage, lies in his superior longevity. Mr. of salt. It acts well in conjunction with am- Oliver, to whom allusion has already been made, moniacal manures, the salt giving strength and solidity to the grain, while the size and luxuriance of the plant are increased by the ammonia. Immense crops of wheat have been produced by using a manure composed of salt and barn-yard dung.

Bones are a valuable manure for wheat, as they contain a large per-centage of phosphoric acid, an ingredient which forms a considerable part of the grain of wheat and other cereals. Bones should be carefully collected, broken into small pieces with a heavy hammer, and covered with wood ashes in barrels or boxes. In a few months the ashes will corrode the bones so much that they can be crumbled into fragthe ashes, can be easily spread over the wheat field. Bones may be ground into dust in bonemills, or dissolved into a pulp by steeping them in sulphuric acid; but as neither the mills nor the acid may be available at all times, we suggest the wood-ashes plan as best suited to the farmer. Bones are generally allowed to go to waste, although with very little labor they might be applied with good results to wheat and other crops.

There are other manures, such as guano, plaster, &c., which are well adapted for increasing the acreable product of wheat, but space does not permit of more than an allusion to them at present. The tillage of land for wheat may be perfect, but if the soil does not contain all the ingredients necessary for building up the straw and forming the grain, they must be supplied in the shape of manure, or a full crop will not be obtained .- Western Rural.

## THE MULE.

In this animal we have a valuable compound, possessing the hardiness of the ass, with the energy and activity of the horse. Incapable of labor, and especially as a substitute for the ed near each other. horse in warm climates. Contrasted with the horse, in reference to its use in this respect, we may be found the following:

1st. His superior strength, both in drawing and carrying heavy burdens. 2d. His comparative freedom from disease and accident, as contrasted with the horse. 3d. His endurance of a temperature which would destroy that an-

Among the economical advantages may be

surance against disease and accident, we may be substantiated."

The second, and perhaps greater economical informs us that he saw, in the West Indies, a mule performing his task, "that he was assured by the owner was forty years old, and that he himself owns a mare mule twenty five years old. which has been at work twenty-one years, and that he discovered no diminution in her powers, and within a year past he has often taken upwards of a ton's weight in a wagon to Boston, a distance of more than five miles."

These considerations have greatly increased the use of mules on the sugar, rice and cotton plantations of the South, and have consequently resulted in their increased multiplication in Kentucky, where, in 1850, there were of asses and mules 65,000. This increased demand. ments, and these, being thoroughly mixed with coupled with a better acquaintance with the principles of breeding and rearing an animal much more desirable than those raised formerly, has, within the past ten years, given to the breeder an advance of more than one-half in the value of his stock, besides curtailing the expense incident to one year's feed.

As regards the kinds of mares to be used in the production of the best mules, I have but to endorse the views briefly expressed in the following quotation:

"They should be large size, well made, young, full of life, large-barreled but small-limbed, with a moderate-sized head and good forehead.' -Louisville Gazette.

TILLERING OF RYE .- Mr. A. H. Maxwell, Palmer, Mass., states that he now has in his shop a stool of rye containing sixty one stalks, all of which sprang from one kernel, the average length of which is five feet and two inches. The average number of kernels per head was

sixty. This is 3,660 fold.
Mr. Vanriper, Hackensack, N. J., told us that he raised a stool of rye having over seventy stalks, all of which sprang from one grain of rye. These instances show how extensively wheat and rye plants will tiller when the soil is rich and the seed deposited a good distance apart. But few plants have the habit of tillering so extensively as wheat and rye, even when a single kernel is planted in an area of ground re-production or breeding, its consideration sufficiently large to admit of tillering to its may not properly belong here, and it will therefore receive only a brief notice. From its sterility, it is only valuable as an animal of grain, as the kernels can be planted far apart, and thus be made to yield more than if plant-

RAISING AND SAVING CLOVER SEED .- First find he has many advantages, and among them prepare your ground well. Have it clean and mellow. Sow early and heavily, and do not pasture much. Sow plaster early, and cut your hay very early. Watch your seed; pass through the field often as it begins to ripen, and rub the heads in your hand; if there is not much seed, you had better cut it for hay, as it will make first rote have, but if you find from will make first-rate hay; but if you find from twenty to forty seeds in a head, or or more, it will do to save for seed.

Do not cut too early, for some of the heads mentioned the amount of food consumed by ripe seed will fall off and be lost. If cut with him, as being less that that necessary for the a mower, have a platform and gather it as you feeding of oats and hay also. The tendency out, if possible. In gathering it, use no kind of carrots is to keep the bowels loose. If a "Although a large-sized mule will consume the feeding of oats and hay also. The tendency of carrots is to keep the bowels loose. If a horse was required to subsist almost entirely the feeding of oats and hay also. somewhat more than half the food necessary stacked, it must be done with the greatest care, the fork. As soon as it is dry, draw, and if for the horse, yet if we take into account the and be well covered with fine hay, straw or saving of expense in shoeing, farriary, and in-

#### THE MANURE HEAP.

The farms about Zurich, in Switzerland, are very small, but the soil is made to produce to the utmost of its capacity from the manure heap, which is the agriculturist's wealth, the art of converting it, particle by particle, into gold. The manure heap is the first thing that attracted the attention on passing a farm house, because it is made with much care and so peculiarly, and because it is near the house in the shade of some elms. A shade it must necessarily have, it is said, from the principle on which it is constructed; and if it were near the stable, it must be near the house, as they are in close continuity. It is appointed to receive all the waste liquids of the house, as well as the barn. If there are no trees in the right place, or right size, they plant them, not to beautify, but to shield this most important portion of their treasures. A pit is made some two or three feet deep, walled tight with stones, slates or boards. Beams are placed across, covered with branches of trees, as a grating; so that when the manure is placed thereon, the fluids drain through and they leave the solids dry above. The stable, where the cattle stand, has a floor of plates of stone or boards, with gravel in front, that they may lie down and get up without slipping. Between them and the wall is a drain from 10 to 15 inches wide, which connects with the reservoir without. There are also two or three ditches or pits into which the manure is first thrown from the stables, in order to be moistened with water, and then placed upon the heap, or, if thrown directly upon it, it is often wet in order to cause fermentation and decay, and to enrich the fluid beneath, made accessible through an opening at one corner, and dipped out with a long-handled pail or ladle. One sees everywhere women and children watering gardens and fields of vegetables with this liquid manure. The sink drains from the house connect with this reservoir, and farmers often build them near towns and cities, to gather the treasures, which are to them invaluable, and would otherwise do no man any good, but occasion harm. This is the secret of their agriculture, and explains how so many people can live on so small a space. Red clover often furnishes 4 and 6 mowings a year, and the grasses are alike productive .- Ex.

THUMPS IN Hogs .- A correspondent of the Madison County, Ohio, Union says: One tablespoonful of copperas at a feed to every ten shoats given three or four times a week, will both prevent and cure thumps in hogs. The copperses should be dissolved in a small quantity of warm water and then mixed with the slop or

CARROTS FOR HORSES .- Wash the roots clean, and feed about four quarts at once, in addition to oats, or cut feed and hay. There is no danger of feeding a horse too much of either tur-If cut with nips or carrots, provided he receives a good er it as you feeding of oats and hay also. The tendency on carrots, his strength would fail, and a large quantity of such green feed might give him the scours. Carrots should be fed in connection with dry feed.

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#### Soiling, or House-Feeding Cattle.

The practice of house-feeding stock has not yet been well established in this country, we say not yet, because we are convinced that it will say not yet, because we are convinced that it will obtain favor and be extensively adopted after the lapse of a few years. The scarcity of succelent food for stock during protracted drouth has again and again been the cause of great loss to the farmer; as the horses, cattle and sheep, have nothing but bare, parched pastures to de-pend on in the fall, become low in condition and are not well able to withstand the rigors of winter, coming out very weak in the spring. In fact the scarcity of grass and the want of green food in the fall, has the effect of stunting green food in the fail, has the effect of stunting the growth of young stock, and keeping those which are full-grown in a weakly condition all through the year. What a contrast there is between the stock on a farm where soiling is practiced and those on one where the old system, of depending solely on pasture, is still continued. of depending solely on pasture, is still continued. House-feeding has many recommendations, and when farmers become made up to it, they will not give it up for any consideration. It is said that "the owner's eye fattens the beast" and a great advantage attending the soiling system, is that the stock are continually under the eye of the owner or manager. Then the large quantity of excellent manure which is obtained from house-feeding animals is in itself a great recommendation. It is well known that the quality commendation. It is well known that the quality of the manure obtained from animals fed on rich. scenlent food, is vastly superior to that which is made by those fed on dry torage, such as straw, hay or corn-stalks. This is so well understood in countries where the improved systems of agriculture are practiced, that rape cake is sometimes given to stock, merely for the purpose of sarishing the manuse, this subseque having a enriching the manure, this substance having a most extraordinary effect in making manure valuable for green crops.

Along with large quantities of solid manure, a great deal of liquid is produced by cattle fed on green food, and this, when collected in a tank, is extremly valuable for applying to grass land, growing crops of vegetables such as cabbages, beets, parsnips, carrots, etc., or for saturating muck or compost of any kind. Barnyard manure may be greatly improved by repeated drenchings of liquid from the tank, which will keen it moist envish it considerably. which will keep it moist, enrich it considerably and prevent fire-fang.

Farmers who have large tracts of land and plenty of pasture and meadow, and whose tillage fie ds yield abundant crops without manure. laugh at the idea of house-feeding cattle, and they go on from year to year exhausting the soil, until the pasture and meadow fail, and the tillage fields become unproductive except in weeds and injurious insects. It is then that the value of soiling stock, and returning compensation to the lands for the ingredients which have been absorbed by the crops, become evident; but the discovery is generally made when it is almost too late to rectify the mistake, at least too late for their benefit, for the renovation of worn-out soil is generally a slow process. to on worn-out soil is generally a slow process. It is much better and cheaper in the long run, to keep the soil in good heart by manuring at proper intervals and establishing a regular rotation of crops, than to go on sowing cereal crops until the land becomes too poor for grass of tillars.

Rye is valuable forage for stock, for not only does it yield good pasturage in the fall, when ordinary pastures are parched and worthless, but it affords a large quantity of soiling in the spring, or rather in the early part of summer. At this time the plants being green and succulent, cattle and horses eat them with avidity; but when the straw approaches ripeness, it becomes dry and hard and is rejected by stock. That which remains after spring-feeding should be allowed to ripen as at a certain state of

which is very much relished by stock; it makes a good succession after the rye, and like it should be used before it becomes too ripe for green food. Clover is very nutritious, containing nearly everything that is wanted for the growth and sustenance of an animal. The flesh and fat-forming constituents are large, and phosphate of lime for the formation of bone predominates. It is not a scourging crop because the long tap-roots force their way deeply into the subsoil, the fibrous roots collect nutriment from the surface, and the loose, fleshy leaves absorb such constituents as the air affords. When sold as hay, clover removes many valu-When sold as hay, clover removes many valuable ingredients from the soil, which are in a great measure compensated for by plowing in the roots as manure; but when consumed as

the roots as manure; but when consumed as green food on the farm, and the manure returned to the soil, it becomes a fertilizing crop. Cornstalks and leaves, when cut green, make good, nutritious food for cattle. By preparing the soil well and sowing broadcast about four bushels to the acre, thirty tons of cornstalks have been obtained from a single acre. From this it will be seen that a large amount of soiling may be procured from a small piece of ground. Cornstalks come in succession after clover, and if all cannot be consumed as green clover, and if all cannot be consumed as green food, they should be cut in proper time and carefully saved for fodder. When a corn crop is raised for the grain, the stalks are generally too ripe for fodder before the crop is harvested; but when it is intended for fodder only, it ought to be cut while the nutritious juices are in it. Vetches are very much used in Europe as soiling for horses and cattle. They yield abundantly, covering the ground with a thick mat of vines from two to three feet high. The spring varieties will no doubt do well in this country. An European farmer has generally four or five different sowings of them, so as to keep up a succession for his stock. In the same field may sometimes be seen vetches fit to cut, and others just peeping over the surface, and the various gradations between these extremes.

It is a well established fact that the practice of feeding stock in summer with green food, cut daily and given to them in stalls or yards, is far preferable to grazing—first because the food is consumed with less waste—second, because rest is to a certain degree an equivalent for food. In the pasture stock do not remain stationary, they are constantly moving about, trampling the herbage, and are wasting in proportion to the amount of exercise they take. To make up for this waste an additional quantity of forage must be taken in, which is not needed when they are at rest, and consequently, by the system of soiling, less food will be required to fatten them. Thirdly, by soiling, there is an increase of valuable manure which in pasturing is nearly lost; and Fourthly, the stock are shaded from the rays of the sun and saved from the annoyance of flies. It is true that soiling is much more suitable to some farms than others. Rich, productive pasture land will always be valuable, but on soils that require to be broken up and manured frequently, the growing of green crops and house-feeding of stock will be

green crops and house-leeding of stock will be of the utmost importance.

In soiling stock of any kind care should be taken lest the green food produce derangement of the bowels. Looseness should be corrected by changing the diet, giving hay instead.—

Cows in call should not receive much green food, as it generally has an unfavorable effect on the calves, producing a tendency to diarrhea which is sometimes destructive to them. A supply of green food should always be provided for milch cows in the fall, as the pastures sometimes be-comes so parched as to yield very little nourishment, and a decrease in milk is the consequence. comes dry and hard and is rejected by stock.

Sheep fall away very much when they have nothing to depend on in the fall but a bare and parched pasture. The dried herbage which it is useless as forage. A field of red clover yields an immense supply of green food the intestines, and produces a fatal diseases

which is very much relished by stock; it makes a good succession after the rye, and like it a splendid pasture for sheep in the fall.

#### TOBACCO FOR SCAB IN SHEEP.

A correspondent of the Prairie Farmer makes the following statement of his experience in treating the scab:

"Having some 300 sheep which were troubed with scab, it was a question to which I could find no answer, as to how much tobacco it would be necessary to use in order to cure them. At a venture, I procured 200 pounds at a cost of 12½ cents a pound. I took the sheet iron bottom of an old sugar evaporator and put in from 16 to 18 pounds of tobacco, and filled it within two inches of the top, and put the boiled tobacco into a barrel with a hole near the bottom, to drain off the solution after soaking, and put water after soaking in the next batch. I found that each batch would dip from 22 to 28 sheep, if not wasted. My box for dipping, was made of 11 inch boards, 16 inches wide and 4 feet long. The bottom was sunk in the ground. Then with matched flooring made a tight platform as wide as the box was long, and put one end over the box, the other being ele-vated so that the juice would run back into the box as it was squeezed out of the wool. Used the solution milk-warm. My sheep are all well."

Dogs and Sheep Bells.—An experienced breeder of sheep says, that a number of sheep in any flock wearing bells will keep away dogs. He allows ten bell sheep to every hundred.—When sheep are alarmed, they run together in a compact body, and the ringing of all the bells frightens the dogs. In Great Britain and Ire-land bells are used by almost every owner of sheep. They are useful for keeping off dogs and foxes, the latter being very destructive to lambs in places where this precaution is not

GESTATION OF ANIMALS .- M. Tessier, who, for a period of many years, was Superintendent of the Experimental Farm, established under the auspices of the French Government, at Paris, found that of 582 mares, the shortest period was 287, and the longest 419 days—exhibiting the surprising difference of 132 days. Another author observes that the most conclusive and satisfactory experiment on record, is that in-stituted by Lord Spencer, in which the period of gestation in no less than 764 cows was accurately ascertained. From this it appears that the shortest period in which a live calf was the shortest period in which a live calf was produced, was 22 i days; but no calf produced under 242 days could be reared. The longest period of gestation was 313 days. From Lord Spencer's tables, as given in the Journal of the Royal Agricultural Society, it appears that 314 cows calved before the 284th day, and 310 calved after the 285th day, so that the probable period of gestation in this useful animal may be fixed at 284 or 285 days. The average period of gestation in the ewe is given by a German author, as 161 days and that of the sow as 143.

Poll Evil.—A. F. C., of Oshkosh, Wis., writes as follows: "I have a horse which has had a swelling on the top of the head tor several months. A sore has formed on it, from which a quantity of corruption has been issuing, and the horse is beginning to get poor in condition. Can you tell me what can be done in such a case?"

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#### CARE OF HORSES IN WINTER.

1. During the winter months, those horses which are used for labor should be well shod. Unless, however, they are to be driven in such places as render them very liable to slip, the corks should not be very sharp. When a horse is newly shod, be a little careful when you drive him, especially if he feels well, or he may cork himself. Like men it takes a few for them to become accustomed to handling their feet with new shoes.

2. See that the stables in which horses stand are strong, and so arranged that they cannot kick each other. In cold weather, if they are not well fed and do not work much, they kick and paw, or bite their mangers for exercise. It is not viciousness that makes them do it but frequently a want of exercise. Often a valuable horse is badly injured just for want of proper arrangement of the stalls. A little expense to-day often saves a good deal to-morrow.

3. See that the floors are strong, and that the horse-barn is well banked up to prevent the cold air from passing under the building, and making the floor constantly cold. Every means ought to be taken to have the floor as warm as possible. A horse that has worked all day and his legs wet, often takes a cold because his legs are kept so during the night by a floor. Warm feet for horses are as important as for men.

4. A horse's bed is of some importance. We know a good many farmers who allow them to stand and lie on the hard floor all winter. They may get used to it, but what can be got used to is not always the best. A good bed of straw, or some similar material, kept clean by frequent changing, should be furnished to all horses. They will frequently paw it from under them, but this is for amusement and not because they do not wish for a bed. When this is the case, great pains should be taken to prevent it.

sken to prevent it.

5. Always clean out the droppings of your techniques and evening. They horses, both morning and evening. They ought always to be removed so far from the stable that the air will not be poisoned by the emanations from them, or the sills and sidings of the barn will be rotted by coming in contact with them. We have always thought the practice of throwing the manure into a heap by the side of the barn door, slovenly, wasteful and detrimental to the health of the horse.— With a broom sweep out all, dust that accu-

6. All horses should be groomed every morn ing when stabled. A good grooming is worth as much as half a peck of oats. Every barn should be supplied with a good curry-comb, card, comb for mane and tail, brush and stiff broom for this purpose. It keeps the circulation in surfaces vigorous, keeps the skin clean and in good condition to withstand both heat and cold, and makes the horse look very much better. An ungroomed horse is like an unwashed boy, or a person who never attends to his toilet.

his toilet.

7. It is a question with some whether a horse should be blanketed in the winter. If the stable is a good one, and sufficiently warm, we should not use the blanket, except when the horse is out of doors, or has been subjected to severe labor or exposure. If it is used when they do not need it, it will do them little good when they do not need it. when they do need it.

8. In a cold day of winter, when a horse's st. In a cold day of winter, when a horse's bits are full of frost, always warm them thoroughly before placing them in the mouth. Not to do this, is very cruel. Touch your tongue or even wet finger to a very cold piece of iron, and you can appreciate the importance of this hint. It may be a little trouble to do it, but it should be done. The frost may be taken out

This is necessary to the health of the animal,

as well as to his and your comfort.

10. Do not allow him to drink very large quantities of ice-cold water at once. Moderately warm water is the best for animals, but a large quantity of very cold water is injurious. Especially is this the case when they do not have moderate exercise immediately after drinkor when the horse is warm or much wearied by hard labor.

11. A horse's tood can never be exactly meas ured to him. Some times he needs more than at other times. Give him as much as he needs, and exercise judgment in regard to the matter. At all times give as much bright hay as your horse can eat. If the weather is very cold, the horse needs heat-producing material, and corp is as good a grain as you can give. Grind it and feed wet, and mixed with a little cut hay When it is warm, oats is the or bright straw. best of grain for horses, and for laboring horses nothing is superior to them. Oats are to the horse what steak is to the laboring man; they

furnish the material for muscle.

12. Young colts should not be stabled in winter, but protected from cold storms and winds by sheds, or kept in unexposed situations.—
They need to be kept where they can move about as much as they desire. It gives them better constitutions and better locomotive pow-Give them a little grain daily, and domes ticate them by treating them kindly and hand-

ling them frequently.

13. Brood mares, unless they are worked, should be allowed to run out, except when the weather is severe. Give them plenty of hay and a moderate allowance of oats. A few roots occasionally are good, but never feed frozen roots or those very cold, to them or any animal. It is like putting so much ice in the stometh of the former. mach .- Ohio Farmer.

To SAVE RENNETS .- Keep the calf from the cow about twelve hours before killing. There will then be but little curd, and what there is, take out carefully and throw away. Do not wash the inside of the rennets, but salt well, and stretch on a crotched stick, and hang up to dry in a moderately cool place. Rennets a year dry in a moderately cool place. old are generally believed to make milder cheese than those of less age. To prepare for use, put one to a gallon of water, about milk warm, add a little salt, soak about ten days, rubbing it well a number of times while soaking to get out the strength, then take out, salt and dry again for future use. Strain the liquor into a jar, put in a little more salt than will dissolve. Tie up in a bag about half an ounce each of cloves, cinnamon and sage, also a lemon cut in slices, and drop into the liquor Keep in a cool place, and stir each time before dipping out. Put enough rennet into the milk to have the curd ready to cut up in thirty minutes after the milk

Experience with Merinos .- A gentleman in Roxbury, Me., gives his experience with Merinos. He says:

I am not a Merino man, but will give what little experience I have had with them. I had always stood up against the Merino, till last year, when I sold my wool, sheared from common sheep. I had to discount ten cents per pound on it, because it was yellowed and felted more or less. That fixed me. I determined to try the Merinos. I therefore purchased a full blood Merino buck last fall. He wintered much better than any other buck I ever owned. I am much pleased with my flock of lambs from him. He sheared ten pounds, two ounces washed wool, two and one-fourth inches long, without stretching. I sent a little of the wool to an old it should be done. The frost may be taken out conveniently by placing the bits in water.

9. If you have no labor to perform with your horse, see that he has plenty of exercise daily.

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on the contrary, my buck is the only one about here, and nearly all the farmers were prejudiced against them.—[Maine Farmer.

## PERMANENT GRASS LANDS.

A correspondent of the Country Gentleman says: "Observation and experience from my youthful years, convince me that lands natural to grass and desired for its production, should never be disturbed by the plow, but their femil. ity kept up by top-dressing of animal manure. ashes, plaster, muck, earth, or whatsoever enriches pastures at almost any time; mowing lands soon after the hay crop is removed, that the surface dressing may act upon the grass as the earth does upon other crops under cultivations, also affording protection and warmth during the cold and wintry season.

Natural meadows-that is, the level land bordering on streams and rivers-are undoubtedly best for mowing, and can usually be made smooth without even a first plowing, and are sometimes found self-sustaining; also lands receiving the wash of hills, roads and barn-yards. often keep up their fertility without any direct application, though the hay crop is continually taken off. Lands less favored naturally, must be treated artificially, and strengthened and replenished by irrigation, or some fertilizing substance applied to the surface.

Plowing seems to destroy the life and take away the heart of the land for grass, which almost always soon runs out after it, and must be richly manured and thickly seeded, and the process often repeated in order to keep it up.

The custom with farmers here is, to plow annually a small piece in their mowing lotewe have but very little natural meadow landput on the entire manure of a large stock, get a good crop of corn, followed by oats, with new seeding, then a fair hay crop for about two sea-

If the grass has been improved, it has not been done by the cast-iron plow, but by the liberal manure. A less portion put on as a topdressing, would have resulted in a greater and more permanent benefit, besides the labor of getting off the stones and preparing it for the

It is also the custom to plow a piece in the pasture, sow to buckwheat, followed by oats, with new seeding, and is then assumed that the land is made better, been enriched, while in fact it has been made poorer to the amount of the two crops taken off, besides otherwise injuring it for the production of grass, as a few years will show.

This unnatural method of improving old pastures by repeated plowing and cropping, has, in many instances, been fairly "run into the ground," and many of these naturally fertile and grassy hills, have become poor and waste places, while others near by, which have never been poisoned by the plow, nor too closely fed, still to a good degree maintain their productiveness.

If an old pasture could be spared a few years to rest, and to grow up to white birches ne about rejudiced

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shade and rest, fallen leaves, and decaying stubs and roots. The first plowing is the beginning of evils, and should never be done where grass is desired.

To hear an old farmer, in passing over his deteriorated mowing or pasture lands, say,the grass has run out here, this needs plowing, is strange logic to me. I believe in Cincinnatas and the plow-but on grain and not on grass land.

The sage saying of the Scotch minister-(our friend John Johnston will agree in this)-when taken by his parishioners, in time of drouth, around with them from field to field, to pray for rain and the blessing of Heaven upon the parched and feeble crops, coming to a very poor and neglected field, he said to his brethren, "Pass on, pass on; it will be of no use to pray over this land-it needs manure!" This was common sense and philosophy, as well as

It is somewhat of plowing as of praying to make grass grow on a poor or run-out fieldplowing will do no good; it needs manure.

ED. RURAL WORLD: Pardon me if I impose on the readers and the well-filled columns of the Rural World, by asking a few questions.

I wish to embark in the business of sheep raising, and desire to know what breed will prove the most valuable in this climate-wool and mutton both being taken into consideration; and to hear through some well-informed subscriber, a few suggestions as to the best manner of building sheep houses.

I wish to know what kind of hedge will grow best on the banks of a river, either where subject to overflow or out of reach of high water .-The hedge is desired merely as a barrier to

A few hints on building small barns, will also be thankfully received.

Being a new beginner and very inquisitive, and altogether exceedingly desirous of relating my experience in the delightful art of farming, you will probably hear from me again shortly.

Marghe Mo. Moselle, Mo. MERRIMACKER.

## WIRE FENCES.

Wire tences in certain localities are prefera-ble to those of wood, both from their cheaper construction (where lumber is scarce) and their requiring less labor to build and keep in repair, while if properly made they are as good, or a better safeguard against unruly stock than wooden fences.

In building a wire fence, it is necessary to have a large post well braced at each end, to withstand the strain when the wires are drawn stiff. These posts should be nine feet long, 15 inches or more across, set four feet in the ground, inclining slightly from each other, and the holes filled in with small stones. They should each be braced with two poles 10 or 12 feet long, and 8 inches across, the small end beveled, and

of two rods. They may be fistened with small the cultivator, and clipped a little once or twice stones il convenient, as they are not so liable and is now five feet high, thick and compact at to heave out by frost, as when filled in with earth. The wires should be No. 6, annealed, was taken away last fall." and fastened to the posts by small hooks or staples, made for the purpose, not so closely, however, as to prevent the wire from moving freely when drawn. Pieces of wire may be spliced, by securing the ends in a pair of tongs, and twisting the end of each around the other. To draw the wires, secure one end to one large post, and the other pass through the holes bored in the other, and the wire-hole of the roller. The wire may then be wound upon the roller by a pair of bars, until it is of a proper tension. The roller for drawing is a "native" of New Jersey, and is it not generally known, I will try and describe it as well as I can without diagrams. It is made of cast iron, 8 inches long and 2½ in diameter; but four inches of the middle is but 2 inches in diameter, thus leaving a flange of 2 inches in width at each end, and as the wire is wound around the middle in drawing, the friction all comes upon the end, which serves as a kind of journal. Through the small part, near one end, is a half inch the small part, near one end, is a half inch hole, to hold the end of the wire; and through each flange is an inch hole (the two being at right angles) for a pair of bars to be entered while turning the roller, withdrawing one while winding with the other. The roller weighs about five pounds, which may be prevented from turning back and unwinding the wire, by putting a wooden pin 6 or 8 inches long in the bar-hole. An inch pin placed in the post, under each end of the roller, will keep it in its place

while winding.

No. 6 wire weighs two pounds per rod. The hooks or staples, for securing the wires to the small posts may be malleable or wrought iron. They can generally be procured at the hardware store.—[Raral American.

#### BARBERRY FOR HEDGES.

The Wallingford Circular says: "One of the wants of the agricultural community at the present time is a good hedge-plant; one that is reliable under all circumstances and conditions. Nearly every one that has been tried thus far, has exhibited some radical defect that unfits it for the purpose. A hedge-plant, to become popular, must be perfectly hardy and easy to propagate. It should also be vigorous enough to grow well in ordinary soil without manure. It should be thorny, to keep cattle from hooking it and extractions where the propagate is an extraction of the propagate is a propagate in the propagate in the propagate is a propagate in the propagate in the propagate is a propagate in the propagate in the propagate is a propagate in the propagate in the propagate in the propagate is a propagate in the propagate is a propagate in the it, and strong enough to keep them from breaking through. Finally, it should be low enough barberry (Barberis culgaris) combines these qualities better than any other plant I am acquainted with. The barberry is a native of the northern part of Europe and Asia, but has become thoroughly naturalized, and is now found growing wild in the waste grounds of New Eng-fand. It is a remarkably hardy plant, thriving well in a great variety of soils, and it is said to live for centuries. It has a shrubby habit (growing from six toten feet in height), yellowish thorny wood, leaves in rosettes, yellow flowers on drooping racemes, and scarlet oblong berries, very acid, but making delicious preserves. We have a barberry hedge on our grounds at Wallfilled in with small stones. They should each be braced with two poles 10 or 12 feet long, and 8 inches across, the small end beveled, and placed in a notch cut near the top of the post, and the butts spread three feet apart, and plant and the butts spread three feet apart, and plant and the butts spread three feet apart, and plant of firmly against a block placed below the ground 6 or 8 inches. Then dress the side of one post (opposite the braces) so as to make a fast surface 10 inches wide from top to bottom.

summer and warmth in winter, and altogether raifying and serifying, ameliorating and renewing its condition, then cutting off the young growth, and you have the best kind of new ground and good pasture for years, enriched by shade and rest, tallen leaves, and decaying state of two rods. They may be fastened with small stone at one end where the soil is quite thin. On our grounds at Oneida we have a barberry hedge 50 rods long, and the first, the next space 8 inches, the next 10 inches. The small posts may be round, and set at equal distances to one foot apart. It has been kept clean with small stone it convenient as they are not so liable and is now five feet high, thick and compact at

#### Construction of Ox Yokes.

The New-England Farmer contains the fol-lowing letter on this subject, from A. G. Shel-don of Wilmington, Mass. The editor says that "few men in the country have riper ex-perience in the use of oxen than Mr. S. He was a large contractor in building the Boston and Lowell and other railroads, besides having been extensively engaged in lumbering, teaming, and in ordinary farm work:"

and in ordinary farm work:"

C. Garnet, in your paper for June 9th, as copied from the Country Gentleman, gives directions for making an ox yoke. His method is, for the yoke to sweep upwards instead of downwards, and the staple to go through the yoke horizontally instead of vertically. I would like to see a pair of cattle that could, with a yoke like this, draw an empty cart up a steep hill. I think I have never seen a pair that could do it. pair that could do it.

He gives four feet four inches as the length of the yoke. We cannot suppose he means to place his oxen so far apart as this, but we must suppose that this is to be the extreme length, which affords us no guide as to the distance apart the oxen should be placed. Oxen do not all wanta yoke of the same length. As a sort of general rule, farmers and yoke-makers allow from twenty-two to twenty-eight inches as the variation in distance between bows for different cattle.

Yokes are sometimes made with four holes in Yokes are sometimes made with four holes in each end. This is a bad practice. In this case the yoke cannot be made exactly to fit the ox's neck when the bow is placed in either the inside or outside holes. And besides, this always brings one hole right on the top of the neck, where it is important that the yoke should be perfectly smooth. This gives opportunity for the dust, and dirt, and rain to collect, and irritate the neck. Now let the yoke be made with only two holes at each end, and worked out smooth and curving to fit the neck worked out smooth and curving to fit the neck as nearly as possible.

as nearly as possible.

There are three points about an ox which are more liable than any others to be made sore by ordinary work in the yoke, viz: The top of the neck and the two shoulders. We often see oxen with sores on each of these three points. Sore shoulders are frequently caused by the bow being too square or too sharp on the outer edge. The bow should be perfectly round at the shoulders. The bow should be perfectly round at the shoulder joint, and of such width as to come between the neck and the shoulder-joint. If any man does not believe this, let him put a heavy crowbar on his shoulder in the right spot, and walk eighty rods, and then put it on his shoulder-joint and walk back.

The drop of the staple, as a general thing, should come down about half way from the top of the ox's neck to the shoulder-joint. Oxen drawing on the lead need a more crooked yoke or a longer staple than when drawing on the nib.

"Perseverance is the best school for every

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#### THE CULTURE OF BULBS.

Now is just the right time to plant out the Holland bulbs, and here is some of the plainest and best advice about them, written by Mr. James Vick, of Rochester, for the Country Gentleman.

No delay should be allowed in getting them into the ground now, though they may be planted at any time, as long as the ground remains open, with success, but the earlier the better, as the bulbs commence to form roots as soon as planted, and the early plantings get strong, and flower stronger and finer than late ones.

"The treatment of bulbs is so simple, and the results so satisfactory, that it seems exceeding strange that they are not far more generally cultivated.

Not in one garden in a thousand, even of those of some pretensions, do we see even a dozen good tulips, and those who invest a dollar or two in good hardy bulbs are pretty sure to eclipse all their neighbors.

Some care and skill are often required to cause flower seed to germinate, but with a little care in fitting the soil, and in obtaining sound bulbs of fine varieties, the most gratifying results are almost certain with hardy bulbs.

The lack of attention to the culture of bulbs is partly from a mistaken idea of the great care and skill necessary to their proper culture: and this impression is strengthened by many writers on the subject, who seem to think there is a great show of wisdom in recommending the most difficult and complicated methods.

On this subject, we repeat what we stated in our last issue: Many and perplexing are the directions given in the books for the preparation of the soil for tubers and bulbs, as though it were a matter requiring the greatest skill and precision; but we are pleased to state to the lovers of flowers, who have little leisure time and but limited means, that good flowers can always be grown without this labor and

Those who have been discouraged with the formidable array of directions, which only a professional florist could practice, need not dispair; the gay crocus, the fragrant hyacinth, removed as soon as they fade. In no case althe brilliant, dashing tulip, can be grown, and low seed to form. The roots of hyacinths are well grown, by any amateur-by any farmer's wife or daughter-and may decorate every without producing any check. humble cottager's garden.

some attention to the simple directions given, season; the success next season, therefore, de-

greatest obstacle to success, is the difficulty of present year. The roots of lilies are not approobtaining sound bulbs of good varieties.

The bulbs grown in Holland, a century of experience, both in this country and in Europe, has proved to be far superior to any produced in any other part of the world. The efforts of florists in other countries to compete with those of Holland, have been failures: hence, hyacinths, &c., are known the world over as Dutch Rulha.

Owing to this exclusiveness of the trade, first class bulbs have been always held at high prices -and hence there has been a great temptation to import those of inferior quality on account of their cheapness, and to sell those grown in this country, or flowered here until almost

Another reason why bulbs are not more cultivated is, that they must be planted in Autumn, and the majority of amateur gardeners do not wake up to the importance of providing plants for their gardens, until the spring is pretty well advanced; and then when the bulb ous plants are in full flower, and should not be moved, often send in their orders. Those who wish a show of bulbous flowers in spring, must make their selection, prepare the ground and plant in autumn.

Any fair garden soil will grow bulbs well; but it must be well-drained, so that the water will not lie on the surface for any length of time, or the bulbs will be likely to rot.

If the soil is poor, enrich it with well-rotted stable manure, or with surface earth from the woods. Cow manure is excellent for bulbs .-Manure should be mixed thoroughly with the soil; and if the ground is stiff and the manure fresh, it is well to put a little sand around each bulb at planting.

The soil for bulbs should be dug deep; and if stiff from too much clay, an addition of leafmold, scraped from the woods, or a liberal dressing of sand, will be of great benefit. A free use of cow manure and sand will always produce good flowers. The most important and is a profuse bearer.

The Beurre Superfin has been much lauded; this is not neglected, success is certain.

After planting, and before winter sets in, cover the beds with a good dressing of leaves, say five or six inches in depth, or more. If leaves cannot be obtained readily, coarse manure will answer.

In the spring, as soon as hard frosts are over. rake off the covering. Nothing more is required except to destroy the weeds as fast as they appear.

As a general rule, beds should be made so small that the weeds can be destroyed, and the ground kept mellow without walking among the plants. Any breaking or wounding of the leaves, causes injury to the bulbs; but the flowers can be cut at pleasure, and all should be Annual, and they can therefore be removed

Tulips and crocuses flower but once, and A rod or two of ground, a little taste, and new bulbs are produced for flowering the next are all that is needed to insure success. The pends upon the production of good bulbs the where for market.

al, and though they throw out new roots readily, do not always flower as freely the first season as after they become established.

If the simple directions we have here given are followed, and good bulbs planted, the cultivator will not only succeed, but will be astonished at the wonderful results of a little labor and expense."

#### PEARS.

At the American Institute Farmers' Club, Tuesday, Sep 11, P. T. Quinn, Newark, N. J., upon the table twenty varieties of pear, from the orchard which he has cultivated many years on Prof. Mape's farm, and gave his views of their character and the profit of cultivation of the several sorts, a brief report of which we trust will be interesting to others who make a

speciality of growing pears for market.

I will commence, said Mr. Quinn, with the I will commence, said ar. Quinn, and the it Duchesse d'Angouleme, because with me it Duchesse d'Angouleme, brofitable. When perfecthas proved the most profitable. When perfectly ripened, it is delicious, and its great size much in its favor. Specimens often weigh a pound, sometimes more. It does best on quince, is a strong grower, and prolific. Here is the Beurre Clairgeau, another very profitable market variety. The tree is vigorous and naturally of pyramidal form. The fruit is large, attractively colored, yellow, fawn and crimson, with russet dots; ripe in October and November; and I have sold them at \$12 a bushel, and as the tree yields well, this is very profit-

Here is the Andrews, a very choice variety for family use, but as it does not bear handling well, it is not so valuable for market: but it is a pear that I would recommend for every private collection. It is an American seedling, of excellent flavor, large size; skin smooth, and rather thick; pale yellowish green, with dull red cheek. The flesh is greenish white and full

of juice. Its fault is, rotting at the core.
The Bonne d'Ezee is an excellent August pear. very sweet, productive, profitable; fruit large, light vellowish green, with russetty patches; flesh white and juicy. The tree is vigorous and productive, but apt to crack.

The Doyenne Boussock is an excellent pear for an amateur; size large; deep yellow, clouded with russet, blushed; flesh, melting, sweet and aromatic. The tree grows strong

but I really cannot say much in its favor. The tree is very vigorous and productive, and fruit large and fine looking, but it is not first quality; ripens November and December.

The Louise Bonne de Jersey is one of the

most profitable varieties grown for market. It bears well, keeps well, sells well. Tree is vig-orous; fruit large, and of handsome form, and comes into market directly after the Bartlett,

and I rate it as first-class.

Beurre Diel (so called after an individual of that name) is in every respect first-rate, and a very profitable market pear; though in some situations it cracks, it does not upon our soil .-The tree is vigorous and productive, and fruit large; orange yellow when fully ripened.

The Belle Lucrative it not attractive, and not well known in market, and therefore does not sell well, although it is one of the best Autumn pears known. It is always good and gives satisfaction to those who eat it, and is by many considered equal to the Seckel. should be in every private collection. bears beyond any other; the fruit hangs in clusters like ropes of onions; is of medium size, pale, yellowish green.

The Sheldon, an American seedling, will yet

make a great mark in the world. It should be one of the leading varieties cultivated every-where for market. The fruit is medium size,

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vellowish green, very hard, bears handling, ri-

pens in October.
The Seckel is too well known, perhaps, to need description. It is among the smallest-sized pears grown; is a native American; orig-inated on the farm of Mr. Seckel, near Phila-delphia. It is, without doubt, the most exceldelphia. lent variety grown.

The Urbaniste is a late Autumn or Winter pear; medium size, though about one-half run too small for sale. I do not find it a profitable variety to grow for market, as it does not sell well.

well.
Onondaga or Swan's Orange, supposed to have originated at Farmington, Conn., is of large size; coarse, yellow skin, dotted with russet, sometimes blushed; flesh buttery and rich when in perfection. It is a fruit of which you are never quite certain, as it is often acid and not rich. If left too long on the tree, it rots at the core.

The Winter Nelis has few equals from January to March. It is what I call a very good quality of Winter pear, and the tree is a free

bearer.
The Vicar of Winkfield has a character which may be set down as good, bad or indifferent, according to the opinion of cultivators. The tree requires age before it comes into bearing, then it is productive and profitable to sell at \$5 a barrel, at which the fruit sells readily in this market in Autumn for cooking purposes, and many pursons who use it do not know that it could be ripened at a high temperature into an excellent Winter fruit. The Vicar is a good tree to work other varieties upon.

The Bartlett is too well known for its excellence to need description. It is very popular, and comes directly after peaches, and sometimes in such abundance as not to be profitable to the grower. It was a drug a few days ago, now it is worth \$16 or \$18 a barrel.

Is worth \$10 or \$18 a barrel.

The Flemish Beauty does not give satisfaction with me, as it only sells for \$5 per barrel when Bartletts are worth \$15. It is because it is not well known to New Yorkers. In Boston it is a leading and profitable variety—there, they know its value. It grows a superb tree, very luxuriant and prolific. The fruit requires to be picked early and ripened in the house,

The Tyson is another excellent native originating near Philadelphia. The tree is an upright, vigorous grower, but tardy bearer, though eventually very productive. The fruit is med-ium size, deep yellow, with crimson check, which gives it an attractive appearance. It bears well, and it it has not the highest quality, has one that makes it valuable—it hangs long on the tree.

Here is a pear which is good to exercise the grower's patience. This is the eighth specimen which I have had from a tree twelve years old. It is called St. Michael Archangel. Although we are willing to wait long for the coming of that personage, waiting twelve years for a crop is rather too much for the patience and profit of a market gardener.

In answer to question, Mr. Quinn said, for his situation, he should name the Duchesse, Bardett, Sheldon, Lawrence, Seckel, as the five most profitable pears to grow for the New York market. It he could have only five for family use, he would name Bartlett, Flemish Beauty, Duchesse, Beurre L'Anjou and Belle

After this interesting description, Mr Quinn directed the fruit to be distributed among the members of the Club.

FIRE BLIGHT IN THE PEAR.—The Country Gentleman states a case of fire blight in dwarf pear trees which was successfully treated by cutting the entire tree down to within a foot or two of the ground as soon as the disease was discovered. The time being after mid-summer.

#### Profits on the Concord Grape.

This is truly the "Grape for the Million," and if you take into account its many good qualities, its health, luxuriant growth, easy propagation, productiveness, early bearing, fine size, and fair quality-we cannot wonder at its being the universal favorite. Acres upon acres are planted every year, and it will soon completely supplant the Catawba here. As an example of its profitableness let me insert an account I have opened with a small piece, onethird of an acre:

COST. 400 small plants at 25 cents each, \$100 Preparing ground, planting and attendance.

Labor during summer, Making trellis, 100 Labor and attendance. Labor and attendance,

PRODUCT. 1300 sum'r layers at 13 cents each, \$169 2000 cuttings, \$12 per 1000, 7000 layers, at 10 cents, 700 8000 cuttings, \$10 per 1000, 2000 lbs. grapes, 16 cents netted, 30,000 cuttings, \$10 per 1000, 2040 lbs. grapes, 24 cts. netted, 320 300 40,000 cuttings, \$10 per 1000,

The product last summer would have been much greater had not the extreme cold of last winter destroyed a great many fruit buds, and I think that the same piece of vineyard will furnish at least 5000 lbs. of grapes the next season. I also planted 30,000 cuttings made in 1863 myself, and grew from them 20,000 splendid plants, which are worth now, at the lowest calculation, \$2000. Deduct from this, cost of cuttings, labor spent on them, &c., would leave \$2,100 for the plants, which could be added to the product, making it \$4,582 from the third ot an acre during four years, and these being the first, of course the product of truit will be much greater the following season .- Geo. Husmann, in Horticulturist.

#### TRELLISING GRAPE VINES.

My method of trellising is one of my own originating, and in all my observations I have never seen one that seems to answer the purpose as well. I first set posts of cedar, chesnut, oak, or any lasting timber, eight feet apart and projecting acout one foot above the ground. To these are spiked with large nails, either before setting the posts or afterwards, two by four scantling, eight feet long; stretch three or tour No. 15 wires along them, and at the top nail a strip of board, one by three to keep the whole secure. No apparatus is needed to ly, three to four inches deep; the eyes being stretch the wire, as a man will pull it sufficiently tight for all practical purposes. The vines are fastened to the uprights by staples made of No. 9 wire and bent in proper shape. The trellis is cheap, can be made by any one, when the most vigorour growth had ceased, no and answers every purpose. Some object to feet long, now filled with a second crop,

very severe check was given to the tree. It sent up new, healthy sprouts, which formed a fine pyramid head. This method of treating the blight is considered superior to that of merely amputating the diseased limbs.

It its being so high; but I like to have it high enough, for some strong-growing varieties require more room than others, and the vine-yardist is not obliged to train to the top unless the pleases. he pleases. My canes are tied to the trellis at distances of about two feet, with any kind of string that will not soon wear apart-usually common cotton twine-and if the cane is allowed to grow to the top board I take a small strip of leather and tack it around the cane to the board.

I renew my canes about once in four or five years by letting, at the summer pruning, a new cave grow near the old one I propose to cut away. Thus I take away about one-fourth or fifth of the vine yearly, which makes the vineyard perpetual. Strong canes should be chosen for the new one, and every chance given to it during the summer, or but little fruit will be found upon it the first year. Old canes will never be as productive, neither will the fruit be as fine or well ripened as upon younger ones. The renewal system should always be adopted in some shape, and with my method it is a very simple affair .- Cor. Rural N. Yorker.

#### GRAPE VINES FROM EYES.

There are two different methods I practice in this country, after many laborious experiments, valuable time and cost.

The first plan is the out-of-door propagation of the readier and more willing kinds. For these, I procure well-ripened wood as late as possible in the autumn before the severe frost sets in; cut it into single eyes and plant them without delay in rows on a bed cross-ways in the open ground (rather exposed than sheltered), which is five to six feet wide, and in length according to the quantity of vine eyes, and prepared with the best possible soil as generally used for that purpose. After planting them, I give a cover of two inches of balf well seasoned loam and half coarse sand well mixed, and do not water them, but let the soil be tolerably damp in good working order. After two weeks planting or more, if the weather permits, it not being wet, I cover the bed three feet with half-decayed horse-manure, mixed with half-fallen leaves, and lastly line the whole bed three feet with the same material, ne frost or moisture being able to penetrate-not even 20° below zero.

In the beginning of April I remove the lining and covering, and place over the beds frames with sashes, and in a very short time the eyes make their appearance; by degrees I give air when the weather requires it. As the plants grow, I raise the frames, and ultimately remove sashes and frames altogether, and leave them to the open air without disturbing or transplanting.

The more obstinate kinds I raise in-doors with and without bottom heat, in sand beds oncovered half an inch. I have now two beds in full operation-one cold, one warm; the cold cold bed is arranged on the front platform of a greenhouse, 100 feet long: the warm bed is in a half lean-to propagating house also 100

and cut it up as above, but instead of planting the eyes at once on the beds, I for two months place them in barrels between layers of moist sand. About the middle of February I plant them on these beds in-doors, and as soon as struck, plant them in well-prepared pits and treat them as the out-of-door eyes. This is the mechanical part of that business and my method here, and if the watchful eye of the experienced propagator but assists, final success is unavoidable. [ - C. Gruneberg, in Gardener's Monthly.

Soil for a VINEYARD .- The report of the Northern Ohio and Lake Shore Grape Grower's Association for 1865-6, explodes some of the former ideas about grape culture-especially the idea that the grapes should be grown on soil highly manured. The report says:

Contrary to the idea entertained at the commencement of grape culture in this country, it is now the opinion of a majority of vignerous, that a dry soil produces the best wine, especially with the Catawba grape. Stiff clay is pre ferred. The soil should be dry: hence, under-draining is often a necessity. Sandy soil may draining is often a necessity. Sandy soil may produce as fair clusters, but the quality of the wine is inferior. Gravelly soil is probably next Clay crests that crop out of sandy or gravelly districts are excellent. Manuring is also discarded. Most experienced growers now consider manure an injury, when wine is the object of production. The vine will bear abundantly a long time, and remain healthy on a soil too poor for common farming. Manuring may spoil a vineyard. We remember a notable instance of the truth of this in the vineyard which produces the far-famed Johannisberger situated on the Rhine. A proprietor once had it heavily dunged, and the quality was perceptibly injured for many years following, though the yield was increased. The wine makers state that the must of grapes grown on the upland clay soils is richer that that from the flatter lands of the Lake Islands or from sandy

On most soils two horses cannot plow deep enough; to use four horses is inconvenient and requires an extra driver. Harness three horses abreast, and you have the best possible plow

#### Alton Horticultural Society.

THURSDAY, Oct. 11th, 1866.

Society met at the Residence of W. C. Flagg, Esq.

W. C. Flagg, reported that the transactions of the Society have been published from its organization, November 12th, 1853, to the close of the year, 1864,

making a neat pamphlet of 103 pages.

The following essay was read by Mr. J. M. Jordan, of St. Louis, which was ordered to take the usual course

Horticulture, or, in other words, Fruit Culture, may justly be considered as the fine art of rural Fruit growing has been considered as a sort of hered Fruit growing has been considered as a soft of never-itary art, very easy to learn by a little practice. Whereas the facts in the case are quite to the re-verse. A great and necessary change of opinion is now taking place in the minds of the people, and the intelligent horticulturist is beginning to be appreci-ated. A thoroughly educated, practical horticultu-rist is no mere clod-hopper, but is as worthy of a di-ploma of honor as the book-learned graduate of Harard or Vale

But any horticulturist to be successful, must avail himself of the experience and the practical results al-

Of these latter, I likewise procure the wood friends and neighbors in council, for it is the contact of man with man, and of mind with mind, which is necessary to inspire that enthusiasm which is so esential to rapid progress.

Our agricultural and horticultural journals, in com with books and periodicals of the day, publish nearly every new and important discovery in the realm of agriculture or horticulture, making it seem to the superficial observer, that these horticultural gatherings are unnecessary.

Nevertheless, it has been established by experience that these horticultural clubs subserve many important purposes which are unattainable by any other

The statement of numerous individual experience will frequently show in an hour on which side the bal-ance of testimony lies, and so decide, in a brief ses-sion, questions which have been the subject of a newspaper war for months. A brisk fire of question will often annihilate in a few minutes some plausibl theory, which might have been perpetuated in print for years, and often out of the chaos of seemingly inconsistent testimony there will crystallize by the ex nggeration of individual experiences a really valua-ble result, which would not have been attained but by the free interchange of opinions, which is only possible when men meet face to face.

Were the proceedings of these associations printed would afford but a faint out in our daily papers, they "a mere skeleton of their value in fact, to which the life-blood of inquiry, and discussion, and special application, and the electricity of personal influence

and enthusiam would be wanting."

Aside from this, the promotion of harmony and goo feeling one toward another, is a matter of importance, and no true horticulturist ever finds his light the less for having lighted that of his neighbor. And though it be but a feeble rush-light we should claim it as a privilege as well as one of duty to place it on the bushel, that it may perchance illumine the pathway of some brother, who may yet be but a horticultural tyro, and whose feet have not been guided by the lamp of experience in the paths that lead to

fruitful results.

There should be no secret in science. east in their mite of valuable information that they may have gained by their own private investigations. All should be sociable. The sole aim and object of many individuals and communities seem to be to get gain, grab all, let the consequences be what they may to others. The desire to accumulate wealth, regardless of comfort, social happiness, and the interchange of friendly sentiments, should be ig-nored. On the other hand, we should take every man respectfully by the hand, look him in the eye with the inward knowledge that we had never injured him in word or deed, and truthfully express sentiments of friendship for him, and a warm desire that he may be prospered in every laudable undertaking.

We should visit more; be more sociable; cultivate convivial qualities by the frequent interchange of friendly greetings and social gatherings at private houses. The system the members of this Society have adopted of holding their monthly meetings at the residences of the members, cannot be too highly commended. It is an incentive on the part of the members of the houshold to make their home as attractive as possible, that others "seeing their good works" will be induced to imitate their laudable ex-

By this means, too, we shall compel the ladies to give us their attention and assistance

It is here especially where we find woman in her own proper sphere. To her softening and refining influence we are mainly indebted for the realization of our ideal homes; for it is they who are ever foster-ing a taste for the beautiful, wisely striving to make our homes what they should be, such indeed as angels will delight in visiting, and such as our children will ever remember with an affection unequaled, save

by their love for their country.

Few indeed are the women who do not love flowers, trees and everything that is lovely and beautiful in

nature and art.

Then let us have the voice, the taste, the influence the gentle sex.

As the purest crystal in its formation attracts to it-As the purest crystal in its formation attracts to it-self kindred particles, even so the centripetal attrac-tion of a pure and womanly life, surrounds her with men of moral worth, whose minds have an affinity for whatever is nobie and Christ-like in the human char-

Let us then, have the influence of the ladies that ur semi-horticultural sphere may be made complete! himself of the experience and the practical results already attained by others, and must make them as stepping-stones whereon to advance to the higher achievements in the domain of the practical. It will not do to "hedge-hog like" ensphere himself in the prickles of his own preconceived notions and prejudices and there remain "orbed in his own grand isolates and there remain "orbed in his own grand isolates". But he must come out and meet with his chejcest fruits of the senson, Fig.—

"Flowers are boly things; the poet ever Proud to his kind, hath bent his knee to them And, often, when his hand bath dared to sever One of these Heavenly children from its stem, His soul hath wept to think that life could never Back to this casket give life's stolen gem; Weeping that love—which prompted him to seine—As o'er dead Hylas wept the Naiades."

J. Huggins reported:-We find on our table a very beautiful collection of flowers.

From Miss Paddock, a variety of Dablias, Roses, Verbenas and extra fine Balsams, distributed in seven

Two flat bouquets from Mrs. Prewett, of Dabliss, atra fine; Marigolds, fragrant Honeysuckle, Hedgwin Pinks and the Comphrens Globosa, an everlasting flower, valuable for winter bequets.

A beautifully arranged boquet from Mrs. Crowder. of choice Perpetual Roses, coral Honeysuckles, Verbenas and Coxcomb.

Also, from Mrs. Hyde, a choice collection of Dahlias, three varieties of Salvia, Geranium, Chrysanthemum, Mignionette and the fragrant Aloysia Citro-

dosa.

Mr. M'Pike remarked that a fine sample of Catawa
was taken from his vineyard to the Chicago fair. It
was an interesting fact, showing that the Catawba is
not yet dead in this locality. All his varieties, the
Delaware, Isabella, Hartford, Herbemont, &c., bare done well this senson. He contends that with proper care, keeping the vineyard and its surroundings clean, there need be no failure. On being asked how he protects his grapes from birds he said, by raising a thousand pounds more than he wished to market!

After dinner, which was more than our pen willun. dertake to describe, the Committee on Fruit madeth

dertake to describe, and Colombia.

following report:
From W. C. Flagg: Jonathan, Janet, Newtown
Pippin, Pryor's Red, Ortley, Chandler, Willow Twig,
English Golden Russet, Fameuse, Pennock, Romas
Stem, Smith's Cider. Brabant Belleflower, Roxbury
Russett, Yellow Belleflower, Dominie; and Quin ters, promising; Chandler, very large, yellow, fair quality fall; Dominie, large, fine specimens. Pear, for name, not known to Committee; very good, said to be productive.

The whole a fine collection.

From H. N. Kendall—Pears, Vicar of Winkfield, Swan's Orange; Apples, Winesap, Yellow Belleflower, and one for name, supposed to be Fall Pippin.

From Harvey Smith, of Moro-Apples: Yellow Belleflower, Newtown Pippin, Winesap, Janet.

A. Starr-Apples: Jonathan, Paradise, Winter weet, Ladies' Sweet, Fulton Fall, Janet, Ortley, Winesap.

Dr. Long—Ortley, Pennock, Autumn Swaar, Winesap, Penn. Redstreak, Vandivere, Roxbury Russett, Pryor's Red. Grapes—Hartford Prolific, Adirondack, second crop. Chesnut with seven nuts to the bur.

Second crop. Chesnut with seven nuts to the burr.
J. Burton—Pears: Doyenne, Seckel, Vicar of
Winkfield. Apples—Smith's Cider, Rambo, Roman
Stem, Willow Twig, Rome Beauty, Peck's Pleasant,
Ortley, Penn. Redstreak, W. W. Pearmain, Winesap.
J. Hyde—Ortley, Roxbury Russett, Tompkin's
Co. King, Smith's Cider, Winesap, Newtown Pippis,
Swaar.

J. Huggins-Apples: Dominie, Fulton, Jonathan, and of pears a fine specimen of Duchess de Angou-

W. Lyon-Apples : Winesap, Janet, Pryor's Red, Hubbardston's Nousuch, Fall Pippin, Am. Pippin, Nickajack, Rhode Island Greening, Willowtwig, Ortley, Yellow Belleflower- nil these grown on young trees, very large, and highly colored. Nickajack and American Pippin not recommended, being very poor

J. D. Burns—Black Vandervere, Pennock, and very

J. D. Burns—Black Vandervere, Pennock, and very fine specimens of Yellow Belleflower.

The Wine Committee reported on the table two specimens of currant wine, one of them manufactured in 1850, and the other in 1865. The last of first rate excellence for its age. The old wine of excellent flavor, and very pure but deteriorated by being kept in a vessel which allowed the evaporation of a part of its fluid leaving the super in access. its fluid, leaving the sugar in excess.
S. B. Johnson, Secretary.

#### St. Louis Horticultural Society.

St. Louis, October 13, 1866. President Colman being absent, Dr. Claggett was

elected President pro tem.

The following fruits and flowers were presented:
By Mr. Dunham, St. Louis county. Apples: Northern Spy, fine specimens, and two other varieties, names unknown, one of which resembled Pryor's Red.

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86.

By Colman & Sanders, St. Louis county, (as a curiosity,) a bunch of ripe strawberries, second growth. By Henry Michel, St. Louis county. Sixty varie-ties of superb dahlias. The report of Committee on Shade Trees was then

Your Committee to whom was referred the subject of selecting the best varieties of shade trees for St. Louis, and the proper mode of planting them, beg leave to report that it is the concurrent opinion of leave to report that it is the concurrent opinion of about all persons of experience and taste as arborists, that the best shade trees for any particular locality are such as are indigenous to that locality. To give general satisfaction, a shade tree should be a reasonably rapid grower, should be hardy and long lived, heautiful when young, and continue to be beautiful in its old age: should confine its roots, without suckers, to as small a space as possible; should be clean in its delaying of growth part give up of grayer does not continue to the best of growth part give up of grayer does not continue to the best of growth part give up of grayer does not continue to the best of growth part give up of grayer does not continue to the best of growth part give up of grayer does not continue to the best continued to the continue to the parties of growth part give up of grayer does not continue to the parties of growth parties and the parties of growth parties of growth parties and the parties are growth parties are growth parties and the parties are growth parties and the parties are growth parties and the parties are growth parties are growth parties and the parties are growth parties are growth parties and the parties are growth parties and the parties are growth parties are growth parties are growth parties and growth pa ers, to as small a space as possible; should be clean in its habits of growth, not giving out offensive odors, or dropping dirty pods, blossoms or thorns, and as free as possible from bugs and worms; and for a city it should be able to stand the dust of dirty streets and the heat of brick walls and sidewalks, and should not spread its branches too wide. You cannot have one that cows and horses will not eat, and bugs or worms work upon, unless you take one that is poisonous, like the ailanthus. We know of no trees that answer all the above requisites, without the noison. ons, like the allanthus. We know of no trees that answer all the above requisites, without the poison, so fully, as our native maples, especially the white or silver leaf maple, and the white clms. They grow well with their roots under the sidewalks, and grow rapidly, if they have soil as good as the ordinary top soil of this vicinity; but they cannot be expected to grow much in the cold, hard, yellow clay that underlies the top soil, which is usually only about one foot deep. Everybody who has an eye for beauty in trees, knows how graceful and beautiful they are, and how that beauty lasts, even improves with age, while the allanthus, the silver leaf poplar, the catalpa and the locust, though they grow fast, and look well for a few years when young, soon begin to show signs of decay, grow scraggy, lose part of their limbs and die carly. The ailanthus and poplar cannot be tolerated for a moment, except in the paved streets, where their early. The ailanthus and poplar cannot be tolerated for a moment, except in the paved streets, where their roots cannot run and throw up suckers to destroy everything around them, as they will in open ground. We therefore urgently recommend the white or silver leaf maple and the white elm, as the best shade trees for the city, and especially for that part where the houses set a little back from the line of the streets. To these may be added, where a greater variety is wanted, the American linden and the tulip tree. A great variety is not needed for true beauty in street

wanted, the American linden and the tulip tree. A great variety is not needed for true beauty in street shade trees. In parks and lawns, evergreens and other native forest trees may be added.

2d. The proper mode of setting them out:

Many people buy a tree with all the roots cut off, and its top cut off, and dig a little hole in the yellow clay under the sidewalk, and stick down the little trees that her elsewalk workship kelicites are force. cay under the sidewalk, and stick down the little stump, that has already probably lain three or four days in the sun, and then put back the clay and the bricks over it, and think they have set out a shade tree; when, in fact, they have only put down a stake that will probably die the first year, but may main-tain its sickly and weak existence for a few years, and will then die of starvation.

The proper and only sure way is, first to select suitable trees, not too large nor too small, but somewhere and trees, not too large nor too shall, out somewhere from one and a half tot two and a half inches in diame-ter at the butt, is the best. Larger trees are more difficult to make live, and no time is gained in the end by selecting large ones, and time is lost by taking smaller ones, as trees of the size named, when taken

smaller ones, as trees of the size named, when taken up and set out with care, live without difficulty.

Select straight, vigorous-looking trees, not running up tall like a fishing-pole, but forming its top as soon as it is high enough to be out of reach of cows. Have a good deal of root on them, and do not cut off the top, but thin it out, so that the roots will not have too much too a support and leave the leading limb. much top to support, and leave the leading limbs un-clipped. Take off lateral shoots and small twigs enough to reduce the top to what the roots will sup-port, and a pretty good amount of top is as necessary to make the tree live as the roots are.

set in the hard yellow clay of this city, ig a hole from two to two and a half feet deep, and no dees than six in diameter, and the deeper and larger it is the better. Carry off the clay, and fill the hole with top soil, and set the tree in that. If that cannot be done, carry off half the clay, and break up the other half fine, and mix it with about equal parts of sand and well rotted manure, enough to fill the hole, and set the tree in that. When the tree is set near the curbstone, if you will make it a good bed in that way entirely across the sidewalk, you, and those that come after you, will enjoy the beauty of a vigorous and long-lived tree. A brick sidewalk sver the roots of a tree is no injury to it in this climate, but rather a benefit, acting injury to it in this climate, but rather a benefit, acting as a mulch to keep the roots moist.

injury to it in this climate, but rather a benefit, acting as a mulch to keep the roots moist.

Trees in the street should be protected with boxes about sixteen inches square and at least six feet high and tied at the top of the box with soft rope or canvas to prevent their being barked by the winds switching them against the edges of the box. Much more might be said appropriate to the subject, but we hope "a word to the wise" will be sufficient.

D. T. JEWETT,
CHAS. PEABODY,
WM. F. COZZENS.

Mr. Kelly. I like the report as a whole; other trees might be added. I would give a little prominence to the tulip tree. It is a clean and beautiful tree, and in some particular localities in our streets, I would prefer it to either the elm or maple. Still, the two latter trees are undoubtedly the best. I like the size recommended. When you set out trees much above two inches in diameter they will not do so well as trees of a smaller size. I would recommend planting trees just twice as thick as it was designed to have them stand permanently, and then when they begin to interfere by growing together, I would thin them out by cutting down every other one. In this way immediate shade is produced.

Mr. Jewett agreed with Mr. Kelly about putting them out pretty thick. If afterwards it were found that they interfered with each other, they could be thinned.

Mr. Peabedy. If trees are put out too thick, they

Mr. Peabody. If trees are put out too thick, they begin in a year or two to interfere with each other, and this checks their growth. They must have plenty of air and sunshine Then, nobody ever wants to cut down a shade tree. The thinning out process recommended will never be done, and consequently the trees, especially if they are clus, will never develop beautifully into their natural shape. I would prefer to spend all the money I have for the purpose in putting out on a lot with fifty feet front two good elms well, than to crowd in six, with the expectation of cutting out three or four of them in a few years. Elms should never be planted less than twenty feet apart. Mr. Peabody. If trees are put out too thick, they

apart.
Mr. Butler. I have seen trees six inches in diameter transplanted in Central Park, New York. It is true \$100 was paid for each one, and they were guar-

true \$100 was paid for each one, and they were guaranteed to live.

Mr. Peabody. I have no doubt this can be done. I have seen trees being removed and transplanted in Paris nearly two feet in diameter, with the tops all on and roots running out ten or fifteen feet in all directions. They were removed in an immense frame on wheels, with the tree all the time in its natural position. But all these methods are expensive. We must recommend something practical, which lies within the reach of every one who owns a lot in the city.

Mr. Sanders. I am in favor of the report in recommending the trees which we know to be the best. But I have no doubt that in time we shall find many others not named in the report which will prove useful. I will mention the ash as a beautiful tree, though I do not know as it has ever been tested for shade in cities.

Mr. Peabody. We have to-day on the table the finest display of dahlias I ever saw. I would like to ask Mr. Michel to give us the method he adopts for

producing such dahlias.

Mr. Michel. I plant the bulbs in hot beds, just as enough to reduce the top to what the roots will support, and a pretty good amount of top is as necessary to make the tree live as the roots are.

If the top of the elm is cut off, it will never grow with the tall, graceful, gradually-spreading top of the native tree; but the growth will be checked for bulb; those sprouts I cut up into little pieces, with the tall, graceful, gradually-spreading top of the native tree; but the growth will be checked for bulb; those sprouts I cut up into little pieces, and several years, and will then spread out, broad and several years, and will then spread out, broad and short, with a top more like a fruit tree. Leave the leading upright shoots on, and they will throw out laterals enough, as they grow, to give a sufficient breadth of top. A maple or an elm can seldom, if ever, be improved by the saw or pruning knife. Look at them as they grow in an old pasture or on the borders of a forest, and see if they can be improved by the hand of man!

When you have selected and trimmed your tree, which are produced a form as soon as possible after they have been taken from the nursery or forest. If they are to be



#### THE ST. LOUIS FAIR.

This great Western Exhibition is over. In most respects it has never been equalled. In all Departments but the Fruit and Vegetable, it surpassed all its predecessors. The Floral Hall was a perfect gem. Mr. M. G. Kern really surpassed himself in this his latest effort. To him have the Directors been indebted for all the attractions which our Floral Hall has offered at this and former Exhibitions. No other fairs can boast of any such designs.

The Department of Agricultural Implements and Machines was filled to overflowing-no other exhibition beginning to compare with it.

The Sheep and Swine Departments were very creditable indeed. Our correspondent, R. H. Ballinger, of Nilwood, Ill., of fine wool sheep notoriety, took off many First Premiums, and exhibited some of the best fine wool sheep we ever saw.

All the city papers were completely loaded with the reports of all Departments of the Fair and contained full Lists of the Premiums, and we think it useless to repeat what they contained. Besides this, we were one of the Directors. and had so much business to superintend that we did not have time to examine all Depart-

Farmers will always find themselves well paid by visiting our Fair.

## FAIR AT CARLYLE, ILL.

We attended the Fair at Carlyle, and grve the Clinton County farmers a talk. We were glad to see that the Society had such fine grounds and so creditable a display at the exhibition. The grounds are new, and have been admirably arranged for the purpose of holding Fairs. The ring for the trial of the speed of horses is entirely disconnected with the other Departments-so that they in no manner interfere with one another. The officers of this Society are deserving of great credit for their labors for the benefit of the farmers of Clinton Co.

#### [Written for Colman's Rural World.] THE ASHLEY FAIR.

This Fair came off on the 16th-19th days of October, with a fine attendance, and as usual in old Pike county, Missouri, a fine lot of stock and other articles in fine condition, were on exhibition, and the affair went off with not a word to mar the peace of the company.

I can boast of the morality of this part of Missouri. No person was drunk on the ground or in the town during the Fair. We have no saloon or dram-shop in our place. What other place can boast of having a population of four hundred persons and no saloon?

There is a good Seminary here, and persons wishing to give their sons and daughters a good education, would do well to place them in this institution. B. Riggs.



#### THE FATHER.

Father! Child! Mysterious relationship!-How many hold it; how few appreciate it !-Fathers live in every neighborhood; but where are the fathers who comprehend the dignity of fatherhood?

God is a father. He is the first, perfect allfather. He is the fountain-head of all fatherhood. All fathers have grown out of Him. All parent power has its origin in Him. Human creatures are but the flowers that have budded and blossomed on the bosom of His paternity. Do fathers acknowledge the source of their parenticity? It is undevout to become a father without a prayer breathed to the giver of all paternity, or a thank-offering made for the mysterious, yet beautiful gift

Father! how tender the name! and how suggestive of mysterious powers! It was not blessing enough that God created man in his own image, but he conferred upon him the power of giving being to other men in his image. The father gives himself to his child; he re-makes himself; by a mysterious process he moulds himself into his child. The essence of his being pervades the child's. Even the character of the father gives its tinges to the child. There may be seeming exceptions, but this is the rule. The brutal father begets a brutal child; the high-souled father imparts nobility to his child. Powers, gifts and characteristics are hereditary. The roots of the father-soul strike into the child-nature. The seeds of the parental character are implanted in the very soil of the offspring being. A child must be like its father; must have the father daguerreotyped in itself. The likeness may be faint or strong, but it must be exact.

How fearful a thing it is to be a father! His faults, his imperfections, weaknesses, impulses passions, ruling loves and lusts, must all plant their germs in the very soul of the new being. They are checked and balanced by maternal inheritances, but nevertheless they go down from father to child through succeeding gener-

How beautiful a thing it is to be a tather !-His strong affections and virtues, his noble powers and generous spirit, his goodness and large-heartedness, strike their life-roots into the soil of the new soul and go down to succeeding generations a rich paternal inheritance-and to its influence for good, no man can set any bounds.

How great a thing it is to be a father! What powers, what labors, what reforms, what brilliance of mind and life, what strong results may follow in the line of a father's family? Many the former owner.

a father unk nown to fame has made the nation shake with the trumpet-tongue of his son's or daughter's name. Tremendous effects for good or bad often follow fathers of modest bearing. their place is everywhere. They serve to form Truly it is a great, a fearful, a beautiful thing to be a father !

Fathers should realize all this, and do the best within their power to train their children to goodness, usefulness and honor. Much depends upon training. A child's character is easily moulded, and if bent may be easily made erect. The father's example is powerful. His words strike on tender ears which will readily catch up their tone and spirit. His acts will be repeated. Let the father think hourly of the tender and recipient nature of his child, and beware of doing evil, beware of showing wrong

#### FAME.

A desire for fame is not the way to obtain it: it was never so obtained. Alas, that it should be so - that our sweet anticipations should thus be blasted! And yet it is rightfor were our happiness no more than a mere desire, and that after so unsubstantial a thing as fame (a name after death), it would amount to but little-not the worth while of a life of labor. The more substantial is seen by the wise and best men-and there we find often enjoying it in the humblest ranks. They enjoy the actuality of life, and not its mere delusion. Fame is a dream-it exists in the mind -a picture, and an exaggeration at that.

#### NOVEMBER.

Deep is the desolation now in the naked fields, and in the more naked woods. All is now a grave-yard-for the flowers and herbs and trees; and the birds leave a requiem behind. This wind is not the summer wind, though the same. It also mourns. The flowers have died as they lived, in silence. So have the butterflies. So do do many beautiful things. So do our dearest joys expire.

The days are short. It is but a look of the sun, and that at a distance, and we are left to the long night. This look is the softest and the saddest in nature. It will do now to walk forth and be alone. How fresh is the air, with here and there a flower vet-as we see on the verge of winter, in spring, flowers also. Yet how different! All is difference! Then nature was young; now it is old. The leaves are ever a prominent thing-ever in the way wherever we go. And can you find more harmless things, except the flowers? they always take the precedence. But the leaves have also been beneficial-these leaves that we tread upon. They grow the mighty forests (that cast them off so ruthlessly); all the fruit, too, and the grain. The leaves do this, that now lie without a whisper or a motion, save when the wind moves them; then they complain severely, that were so happy during the summer, clapping their hands. Their fate is

A New Zealand chief maintained that he had a good title to his land because he had eaten

#### FLOWERS.

Flowers are the bright stars of man's existence. They are ever called to his aid, and the bridal chaplet, and are laid upon the caskets of loved and loving ones! Thus they are associated with him in all the scenes of life,

What is more pleasing to the sick than a bunch of flowers culled by the hand of some dear friend, and sent to beguile the tedious hours? He constantly asks to have them brought near to him that he may innale their sweet perfume, and, as it were, gathers new strength to bear the sickness, sent by that Hand that woundeth but in love.

They serve to lift our thoughts "from nature up to nature's God;" for we cannot look upon things so beautiful without the thought, that they were formed by other than human wisdom. Many are the lessons we may learn from these types of angelic beauty. The glory of all earthly kings cannot compete with them, for even Solomon, the wisest and wealthiest of monarchs, as our Saviour tells us, was not arrayed like the lily of the valley, one of the least among flowers. Though its outward robe may not be so gaudy as that of others, yet it is, and shall be through all future ages, the emblem of purity. And can we wonder then that He, whose whole life was one of unsullied purity, should speak thus of this humble flower?

Flowers, like all things else of earthly type, remain but for a short time. They open their petals to the influence of the sun and air, and having received new life and beauty, ere long they droop and die! Let us, then, as we see that upon all around us is written, in characters too plain to be mistaken, "passing away," remember that we too bear the same impress -and also, that each moment as it is launched into the broad ocean of eternity, bears upon its bosom the record of every deed done in the body, for which we must give account in the day of judgment. Then shall those things which we now suppose only known to ourselves and our Maker, be made manifest to all mena solemn thought! Let it teach us to be watchful over our every action in life, knowing also that for every idle word, God will bring us into judgment .- Ex.

A New Barometer.—An exchange says, that a German has recently invented a very cheap and easily made barometer. Take a common glass wide-mouthed pickle bottle and fill it to within three inches of the mouth with water. Then take a common sweet oil flask and cleanse it thoroughly, and plunge the neck into the pickle bottle as far as it will go. This completes the barometer, and in fine weather the water will rise in the neck of the flask, descending again in wet, windy weather. Before a heavy gale of wind, the water has been seen to leave the flask altogether, at least eight hours before the gale was at its height.

Basillicon ointment, which all drug stores keep, is a mild and efficacious ointment for bruises and sores—spread on linen and bind on the part affected. Though in cases where the flesh is bruised by iron or machinery, chewed tobacco is excellent as an immediate and primary application, to be bound on the part.

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"There is no Such Word as FAIL."

This sentence should be deeply impressed the opposing foe, must sink sooner or later inthe pean of victory. It were better for that only that, fearlessly accepting it challenges, doing battle as they move along, win the goal. He who sets out with fear and trembling, dreading to meet foes seen and unseen, succumbs ere he has commenced the journey; but he body in various stages. who boldly adventures the path, whether it leads to gloomy abysses or up giddy ascents, over morasses, through night-like forests, or into regions of perpetual snow, holding aloft his banner, inscribed with the daring motto-"There is no such word as Fail!" is victor in every fight. His heart beats quick, his eye brightens, and his strong arm his nerved for battle when danger approaches. No thought has he of retreat-onward, onward he marches, driving his enemies before him! What cares he for these-was he not made to do or die?-He will be victorious-nothing shall deter him. He knows no such word as Fail. Whatever he resolves on, must be accomplished! He cannot succumb, though the world should press upon him. Death, rather, and he conquers! The hero of the field, he wears the laurel crown! It is only when age overtakes him, palsying his arm, and stealing his strength of purpose, that he "wraps the drapery of his couch about him, and lies down to pleasant dreams." Even then he is but subdued-not conquered. His tack has been faithfully accomplished. His end is blessed!

Young man and young woman, if you would succeed in life, strike from your vocabulary the stumbling-block to success—the word fail!— Maryland Farmer.

A WIFE, A MOTHER. - How sacred and venerable these names! What nobler objects can the most aspiring ambition propose to itself than to fulfil the duty which these relations imply! Instead of murmuring that your field of influence is so narrow, should you not rather tremble at the magnitude and sacredness of your responsibility? When you demand of man a higher education than has hitherto been given you, and claim to drink of the same wells of knowledge as himself, should it not be that you may be thus enabled, not to rush into that sphere which nature has marked for him, but to move more worthily and gracefully within your own?

A gentleman having engaged a bricklayer to make some repairs in his cellar, ordered the ale to be removed before the bricklayer commenced his work.

WARTS.-To cure warts, take a little Corrosive sublimate and put it in whisky, and with the mixture wash the wart a few times and it is gone. Then dress it with some mild oint ment, and in a short time one would not know that a wart had ever been there.

#### BOILS

Are nature's method of avoiding or curing upon the hearts of the young. He who will not disease. . A boil begins with a hard lump, strike boldly in the battle of life, and conquer which increases in size, heat and painfulness for about seven days; then it begins to "point" to the slough of despond, and be forgotten by and a yellow speck at the top is seen. This the on-marching army, whose lips are singing spreads, and finally "breaks," discharging more or less blood and matter for two or three one if he had never been born. Life is not a days, when the "core" comes out, the pain rose-laden path for carpet-knights to tread. No; ceases, the hollow left is by degrees filled up its ways are rugged, and it is the brave in heart with new flesh, and in about fourteen days from the beginning, the parient is well, at least of that one! But sometimes a second one breaks out before the first one is well; or a dozen or more appear in various parts of the

> Job was covered with boils. The Romans designated them by the Latin word which means to "make mad," or ill-natured. Only saints can be serene when a boil is coming to a point. The old and the young, the vigorous and the weakly-all are exposed to them; but with this difference-in the robust, they run their course in about fourteen days and get well of themselves. In persons of feeble constitution, a boil becomes a carbuncle, which is many boils springing up near together. These often prove fatal, especially with those who use ardent spirits. The general treatment is to call in a surgeon and have it cut to the bone in a cross. In every case, keep the parts moist all the time by a poultice of sweet milk and stale bread; nothing better, safer or more handy, can be used; it remains moist longer than most others, and is easily softened and removed preparatory to renewals, which should be made thrice a day.

Boils are the result of impure blood, made so by imperfect digestion; or an excess of bile, owing to a torpid liver or the want of sufficient out-of-door exercise. They are not a sign of health-but that nature is carrying on a healthful process.

A felon or whitlow, is a boil formed on the bone under the whit-leather or broad tendons, which are so impervious that the yellow matter cannot be worked out through them; hence if not promptly cut down upon, to let out the

As to a common boil, all that should be done is to render the process of cure less painful, by moist poultices, by living on coarse bread, ripe raw fruits, berries, and tomatoes in their natural state-using no sweets, oils, meats or spirits. If the constitution is feeble, beefsoups, and other nourishing food, is necessary. Be out of doors; keep the skin clean, and have the bowels act freely every day.

The Saxon name, "Bile," is the best term, "I presume not," said the gentleman; "but charging extra bile from the system, with other lithink a barrel of ale would run at your approach." that they were not treated with sufficient activity .- Hall's Journal of Health.

> People who like so much to talk their mind should sometimes try to mind their talk.

# DOMESTIC DEPARTMENT

Muffins—Flour, 1 quartern, warm milk and water 14 pints, yeast 2 pint, salt 2 ounces. Mix for 15 minutes, then further add, flour 2 peck, make a dough, let it rise 1 hour, roll it up, pull it into pieces, make them into balls, put them in a warm place, and when the whole dough is made into balls shape them into muffins, and bake them on tins. Turn them when balf done, dip them into warm milk and bake to a pale brown.

BEST TOOTHFOWDER.—The ashes of good cigars.—
Use those that are white, common cigar ashes are of a black color and unfit for this purpose, but good cigars furnish pure and nearly white ashes, which is a mild, and excellent dentrifice and valuable also for cleaning artificial teeth. Those who wear them should, on retiring to sleep at hight, take them out of their months and let them soak in water till they of their mouths and let them soak in water till they rise. A little of the above ashes on a tooth-brush, occasionally used, will keep artificial teeth free from all unpleasantness. Of course ladies will have to depend on their husbands or brothers for a supply of

SCENT RESEMBLING VIOLETS—Drop 12 drops of genuine oil of rhodium on a lump of sugar, grind this well in a glass mortar, and mix it thoroughly with three pounds of orris power. This will, in its perfume, have a resemblance to the violet.

WEARING FLANNEL-Flannel should be worn mer and winter, during the day, but should be taken off at night. In summer, it allows the perspiration to pass off without condensing upon the skin, and prevents the evil effects of the rapid changes of temperature. In winter, it is a protection against cold. At night, it should be exposed to a free current of air and allowed thereughly to dry, it should be reposed to a free current of air and allowed thoroughly to dry; it should never be put in a heap of clothes by the bed-side.

THE HANDS .- In order to preserve the hands soft and white, they should always be washed in warm water, with fine soap and carefully dried with a moderately coarse towl, being well rubbed every time to insure a brisk circulation, than which nothing on be more effectual in promoting a transparent and soft more effectual in promoting a transparent and soft surface. If engaged in any accidental pursuit which may hurt the color of the hands, or if they have been exposed to the sun, a little lemon-juice will restore their whiteness for the time; and honey scap is proper to wash them with. This can be purchased at any respectable chemist's. Almond-paste is of essential service in preserving the delicacy of the hands. It is made thus: Blanch and beat up four ounces of bit-ter almonds, add to them three ounces of lemon-juice. ter almonds, add to them three ounces of lemon-juice, three ounces of almond oil and a little weak spirit of wine. The following is a serviceable pomade for rubwine. The following is a service noise point are for run-bing the hands on retiring to rest: Take two ounces of sweet almonds; heat with three drachms of white-wax and three drachms of spermaceti, put up care-fully in rose water. Gloves should always be worn on exposure to the atmosphere, and are graceful at all times for a lady in the house except at meals.

BEET-ROOT COFFEE.—A very good coffee can be made of beet root in the following manner: Cut dry beet-root into very small pieces, then gradually heat it in a close pan over the fire for about fiteen minutes. yellow matter, it must get well by the slow and fearfully-painful process of re-absorption.

Now introduce a little sweet fresh butter, and bring it up to the reasting heat. The butter prevents the evaporation of the sweetness and aroma of the beetroot, and when fully roasted it is taken out, ground and used like coffee. A beverage made of it is cheap, and as good for the human system as coffee or chicory.

#### HOUSEHOLD FRIENDS.

Coe's Cough Balsam and Coe's Dyspepsia Cure—they should always be in the house ready for immediate use; they are the most reliable remedies known. The one always handy and speedy in cases of sudden attacks of croup amongst the children, or for curing the most stubborn coughs and colds, is excellent for sore throat and all lung difficulties, the other-Coe's Dyspepsia Cure-is certain to cure Dyspepsia, no matter of how long standing, indigestion, and all diseases that originate in a disordered state of the stomach and bowela.

Some men are like cats. You may stroke the fur the right way for years, and hear nothing but purring; but accidentally tread on the tail, and all memory of former kindness is obliterated.

## RULES FOR IMPROVEMENT.

Never shrink from an unpleasant duty.

Be charitable in thought as well as in action. Bathe every morning and take plenty of exercise.

Be open for correction: if you are in the wrong, frankly acknowledge it.

Be virtuous in mind and body, and let your thoughts be pure.

Be useful for the love of use, and not for the credit of being useful.

Improve yourself by the means in your pow er, mentally and physically.

In time of danger and trouble, think first, and then act coolly and decisively.

Never be prejudiced, or allow yourself to be led, without first judging for yourself.

In study, concentrate your thoughts and ideas colely upon the subject before you.

Never be idle; always have something to do. Remember, moments are the golden sands

Always get up when you first wake in the morning-one hour of that time is worth two at night.

Do everything in a cool, active and energetic manner; never allow lazy feelings to come over

Persevere. Never give up a thing until you have tried it in every possible way.

A spirit of kindness is beautiful in the aged lovely in the young, and indispensable to the comfort and happiness of a family.-Ex.

### Errors of Youth.

A GENTLEMAN who suffered for years from Nervous Debility, Premature Decay, and all the effects of youthful indiscretion, will, for the sake of suffering humanity, send free to all who need it, the receipt and directions for making the simple remedy by which he was cured. Sufferers wishing to profit by the advertiser's experience, can do so, by addressing, in perfect confidence, JOHN B. OGDEN, Oct. 15—6t

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What class of people will be most susceptible to at-

tacks of Cholera?
Evidently those affected with any disease of the

stomach, liver, or any of the organs appertaining to digestion. This class of persons will undoubtedly be more liable to contract this disease than those possess-

ed of strong and healthy digestive organs.

The question then naturally arises, how shall we restore and keep these organs in a healthy and normal condition? We answer, by attention to diet, avoiding condition: woanswer, or satellite to the according all undue excitement, using moderate exercise, avoiding all intoxicating drinks, no matter in what form presented, and by the use, according to directions of presented, and by the use, act that great strengthening tonic,

## Hoofland's German Bitters.

Prepared by Dr. C. M. JACKSON, Philadelphia. This Bitters is a compound of Fluid Extracts. The roots and herbs from which it is made are gathered in Germany, and their virtues, in the form of extracts, extracted by one of the most scientific chemists and pharmaceutists this country affords. It is

NOT A LIQUOR PREPARATION.

In any sense of the word; contains no whisky, rum, or any other intoxicating ingredients, and can be freely used in families, without any fear or risk of those using it contracting the disease or vice of in-temperance. We wish this fact distinctly understood, as many are apt to confound this Bitters with the many others before the public, prepared from liquor of some kind. During the

Cholera Season

Of 1849, this Bitters was extensively used throughout the entire country AS A PREVENTIVE, And we have not heard of a single instance in which this Bitters was used, where the persons suffered from any of the symptoms of Cholera.

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HOOFLAND'S GERMAN BITTERS,
WILL CURE DEBILITY resulting from any cause
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Soldiers, Citizens, Male or Female, Adult or Youth,
Will find in this Bitters a pure Tonic, not dependent
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And Diseases resulting from Disorders of the Diges and Diseases resulting from Disorders of the Digestive Organs, and is the only sure, certain and safe remedy for LIVER COMPLAINTS. All are more or less affected during the spring and fall with torpidity of that important organ of digestion, the Liver. This Bitters, without containing any preparation of mercury, or by purging, acts powerfully on this organ, excites it to a healthy and lively action, and gives a tone to the whole system, hence. HEALTH, ENERGY AND STRENGTH take the place of SICKNESS, DEBILITY and LASSITUDE.

Hoofland's German Bitters

Will cure every case of Chronic or Nervous Debility,
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Arising from a Disordered Stomach.
Observe the following symptoms resulting from disorders of the digestive organs:
Constipation, Inward Piles, Fullness of Blood to the

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ing or Fluttering at the Pit of the Stomach, Swimming of the Head, Hurried and Difficult Breath-Hurried and Difficult Breathing, Fluttering at the Heart,
Choking or Sufficating Sensations
When in a Lying Posture,
Dimness of Vision, Dots or
Webs before the Sight, Fever and
Dull Pain in the Head, Deficiency of
Perspiration, Yellowness of the Skin and
Eyes, Pain in the Side, Back, Chest, Limbs, &c.,
Sudden Flushes of Heat. Burning in the Flesh, Constant Imaginings of Evil, and Great Depression
of Spirits.

BE SURE YOU GET THE GENUINE.

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his signature on the wrapper and his name blown in
the bottle. There are counterfeits in the market.

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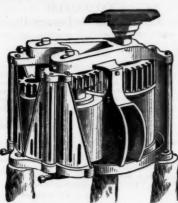
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Agent for the Sale of Leather and Rubber Belting, Rubber and Hemp Packing,

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PORTABLE PLANTATION GRIST MILLS. Pumps of all kinds, Wool Carding Machines, Cider and Wine Mills. Also, Agent for All kinds of Fruit Trees, Shrubbery, Evergreens, Roses, &c.

Any article not on hand when called for will be ordered immediately.

## Lyon's Periodical Drops.

THE GREAT FEMALE REMEDY FOR IRREGULARITIES.

These drops are a scientifically compounded fluid preparation, and better than any Pills, Powders, or Nostrums. Being liquid, their action is direct and positive, rendering them a reliable, speedy and certain specific for the cure of all obstructions and suppressions of nature. Their popularity is indicated by the fact that over 100,000 bottles are annually sold and consumed by the ladies of the United States, every one of whom speak in the stongest terms of praise of their great merits. They are rapidly taking every one of whom speak in the stongest terms of praise of their great merits. They are rapidly taking the place of every other Female Remedy, and are considered by all who know rught of them, as the surest, safest and most infallible preparation in the world, for the cure of all female complaints, the removal of all obstructions of nature, and the promotion of health, regularity and strength. Explicit directions stating when they may be used, and explaining when and may they should not, nor could not be used without producing effects contrary to nature's chosen laws, will be found carefully folded around each bottle, with the written signature of John L' L'ron, without which the written signature of John L. Lyon, without which none are genuine.

Prepared by Dr. JOHN L. LYON, 195 Chapel St. New Haven, Conn., who can be consulted either personally or by mail (enclosing stamp), concerning all private diseases and female weakness. Price \$1.50 per bottle. Sold by druggists everywhere.

C. G. CLARK & CO.,

Gen'l Agents for U.S. and Canadas.

Collins Bro's, Wholesale Agents, St. Louis.

Decl-iv

Decl-ly

## 50,000 CONCORD GRAPE VINES FOR SALE.

Price, First Class, per thousand, \$75. Second Class, " \$50. Delaware Layers, \$20 per 100; " \$15 \$150

These Vines are very fine. Address, D. W. KAUFFMAN, Des Moines, Iowa. Sep. 15-5t

#### CHOICE FRUITS, FLOWERS, SEEDS, &C.

B. M. WATSON, OLD COLONY NURSERIES AND SEED ESTABLISHMENT, PLYMOWTH, Mass., offers a complete assortment of the BASS., OHERS & COMPLETE ASSOCIATION Of the facest darkers and most productive sorts. The facest GRAPES, new large CURRANTS, STRAWBER. RIES, GOOSEBERRIES, BLACKBERRIES, ROSES, FLOWERING PLANTS, BULBS, LILIES, SEEDS, &C., may be sent by mail, prepaid, in perfect order. FRUIT and ORNAMENTAL TREES feet order. FRUIT and ORNAMENTAL TREES and SHRUBS, EVERGREENS, HEDGE PLANTS, &C., will be sent by Express or Freight, paid to Boston. Also, the TRUE CAPE COD CRANBER. Boston. Also, the TRUE CAPE COD CRANKER. RY, for cultivation in Wet land, or in upland and Gardens, where it produces at the rate of 400 bushels to the acre: with directions for cultivation. Priced Descriptive Catalogues will be sent to any address.—Now is the Best Time for Planting. The best way to obtain Good FRUITS AND FLOWERS, is to send direct to the Grower. Send for a Catalogue.

Wholesale Catalogues to the trade. Agents wanted. Oct. 15-2t

#### ADIRONDAC GRAPE NUR-SERY AND VINEYARD.

Superior Vines at Low Prices. 40,000 ADIRONDAC GRAPE VINES, of one, two and three years—the earliest and best Native Grape. Also, Iona, Israella, Delaware, Allen's Hybrid, Diana, Concord, Crev. ling, Cuyahoga, Hartford Prolific, Maxatawny, Miles, Roger's Hybrids, Rebecca, Sherman, Union Village, &c.

Sample vines securely packed and sent by mail when ordered. Descriptive and Priced Catalogues sent on application. JOHN W. BAILEY & CO., ep. 15—4t Plattsburgh, Clinton Co., N.Y. on application. Sep. 15—4t

#### 50,000 Concord Grape Vines.

I have for sale 50,000 Concord Grape Vines, at \$70 per thousand. WASHINGTON MILLER, Sept. 15—4t Des Moines, Iowa.

#### WOOD & MANN STEAM ENGINE CO.'S CELEBRATED

## Portable Steam Engines.



## From 4 to 35 horse power. Also, PORTABLE SAW MILLS

We have the oldest, largest and most complete works in the United States, devoted exclusively to the manufacture of Portable Engines and Saw Mills, which, for simplicity, compactness, power and economy of fuel, are conceded by experts to be superior to any ever offered to the public.

The great amount of Boiler room, fire surface, and cylinder area, which we give to the rated borse power.

The great amount of Botter From, are surface, and cylinder area, which we give to the rated horse power, make our Engines the most powerful and cheapest in use; and they are adapted to every purpose where power is required. All sizes constantly on hand, or furnished on short notice.

Descriptive Circulars with Price List, sent on application.

cation.

WOOD & MANN STEAM ENGINE CO., Utica, N. Y. Branch Office, 96 Maiden Lane, N. Y. City. july1-1y

#### Imported Dutch Bulbous Roots, J. M. THORBURN & CO.,

15 John Street, New York,

Beg leave to announce to their friends and the Trade, that their Annual Descriptive Catalogue of Dutch Bulbous Roots, for the autumn of 1866; also, a Trade List of the same, are now ready for mailing to applicants, free We also take th

also take this opportunity to offer the follow-

## BEAUTIFUL COLLECTIONS BULBOUS ROOTS.

der.	or pots, gla				
1 Polyanthus	Narcissus,				
3 Early Tulip	a, .			. ?	\$2.0
2 Fine Mixed	Crocus,			.	
1 Bulbocodium	n Vernum,				
By Mail	14 cents ad	diti	onal.		

cincus, for pots, gias	0000	OF O	ben n	OL-
der,				
6 Fine Double Tulips,				
15 Beautiful Named Early	Tu	lips,		
25 Fine Mixed Crocus,				
3 Polyanthus Narcissus,				
6 Double Narcissus,				
3 Bulbocodium Vernum,				
3 Persian Iris,				
19 Double Snowdrone				

\$5.00

\$10.00

By Mail, 38 cents additional. No. 3.-ASSORTMENTS OF 18 Fine Named Double and Single Hya-

der, 50 Fine Mixed Crocus, 24 Beautiful Named Early Tulips, 12 Fine Named Double Tulips, 4 Polyanthus Narcissus, 12 Double Narcissus, 3 Persian Iris, 3 English Iris, 1 Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops, By Mail, 75 cents additional.	cinths, for pots, glas	8868	or	open	bor-
24 Beautiful Named Early Tulips, 12 Fine Named Double Tulips, 4 Polyanthus Narcissus, 12 Double Narcissus, 3 Persian Iris, 3 English Iris, 1 Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,					
12 Fine Named Double Tulips, 4 Polyanthus Narcissus, 12 Double Narcissus, 3 Persian Iris, 3 English Iris, I Crimson Crown Imperial, 6 Bulbecodium Vernum, 25 Double Snowdrops,	50 Fine Mixed Crocus,				
12 Fine Named Double Tulips, 4 Polyanthus Narcissus, 12 Double Narcissus, 3 Persian Iris, 3 English Iris, I Crimson Crown Imperial, 6 Bulbecodium Vernum, 25 Double Snowdrops,	24 Beautiful Named Early	Tu	lip	8	
12 Double Narcissus, 3 Persian Iris, 3 English Iris, I Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,					
12 Double Narcissus, 3 Persian Iris, 3 English Iris, I Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,	4 Polyanthus Narcissus.				
3 Persian Iris, 3 English Iris, 1 Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,					
I Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,					
I Crimson Crown Imperial, 6 Bulbocodium Vernum, 25 Double Snowdrops,	· 3 English Iris.				
6 Bulbocodium Vernum, 25 Double Snowdrops,		l.			
25 Double Snowdrops,		,			
		diti	ons	ıl.	

HYACINTHS.

Our Own Selections. 12 Mixed Hyacinths (double and single), for pets or open ground,
12 Named Double and Single Hyacinths, for pots,
glasses, or open border,
33.00
12 Fine Named Double and Single Hyacinths, for pots, glasses, or open border, . \$4.00 12 Extra Fine Named Double and Single Hyacinths, for pots, glasses, or open border, \$5.00
12 Our very best collection of Double and Single
Named Hyacinths, for pots or open border, \$8. Mixtures, . . . per 100, \$11.00 By mail at the rate of 22 cts. per dozen additional. Mixtures

MIXED HYACINTHS.

For open-air curt	MI C.	
In quantities less than 1 dozen,	15 cents e	each.
Double Blue, all shades, po	er dozen,	\$1.5
Double Red, all shades,	66	1.5
Double White, various colored eyes	B, 44	1.5
Double Yellow, all shades,	44	2.5
Double, all colors mixed,	44	1.5
Single Blue, all shades,	66	1.50
Single Red, all shades,	66	1.50
Single White, various colored eyes,	44	1.50
Single Yellow, all shades,	66	1.50
Single, all colors mixed,	44	1.5
By mail at the rate of 20 cents. per	r doz. addi	tional.
MIXED TELIP	8	

# For the Garden.

	per 100	per doz	each
Fine Mixed Early Single,	\$6	75	08
Fine Mixed Late Single,	\$6	75	08
Fine Mixed Bizarre,	* \$6	75	08
Fine Mixed Bybloom,	\$6	75	0.8
Fine Mixed Rose or White,	\$6	75	08
Fine Mixed Parrot,	86	75	0.8
Fine Mixed Double,	\$6	75	08
By mail at the rate of 6 ce	nts per doze	n additio	nal.
Also, LILIES, CROCUS, 1	NARCISSU	S. &c. &c	e., for
all of which see our Descri			
	THORBU		
	15 John St.		

## REMOVAL.

St. Louis Agricultural Warehouse and Seed Store,

[Established 1845, by Wm. M. Plant.] SIGN OF THE GILT PLOW.

NOS. 116 & 118 SOUTH MAIN ST., Also, No. 820 NORTH FOURTH STREET (Fronting on two streets), & 823 BROADWAY, SAINT LOUIS, MO.

## Plant & Brother,

M. PLANT.] [ALFRED PLANT. Wholesale and Retail Dealers in and Manufacturers' Agents for the Sale of

#### Agricultural Implements and Machines

Leather and Rubber Belting, Hose, Steam Packing. Howe's Standard Scales. Pearce's Plantation Cotton Spinners.

WOOL CARDING MACHINES, COACH SCREWS, STORE TRUCKS: CISTERN, DEEP WELL, ENGINE AND CHAIN PUMPS; &C.

Krauser's Improved Portable Cider Mill and Press.

Sugar Cane Mills and Juice Evaporators.

## Cotton Gins, Hand and Power Corn Shellers.

Smith's Patent Cast Cast-Steel Plow.

Young's and Tobey & Anderson's Peoria steel Plows. STAFFORD'S 2-HORSE SULKY CULTIVATOR.

## Selby's double check row CORN PLANTER.

McGaffey's Double-Check Row or Drill Corn Planter.

# Kirby's American Iron Reaper and Mower.

Sulky and Revolving Horse Hay Rakes.

PALMER'S EXCELSIOR HORSE HAY HOISTING FORK.

Palmer's Revolving Hay Stacking Machine.

Also, a full supply of Warranted Fresh and Genuine

### GARDEN, GRASS & OTHER SEEDS, growth of 1865. All of which we offer at the lowest possible CASH PRICES.

Call and get Illustrated Catalogue furnished Gratis.

St. Louis, Mo., Feb. 1866.

# PLANT & BRO.

THOROUGH-BRED SPANISH SHEEP FOR SALE—I have for sale, of pure Spanish Stock, a FEW EWES AND BUCK LAMBS. They can be seen at my premises, two miles south of Nilwood. Chicago and St. Louis R. R. The lambs are sired by the celebrated Infantado Ram "Pringe." Orders and satpromptly filled by express, properly boxed, and sa isfaction given. R. H. BALLINGER, Oct. 1 Nilwood, Macoupin Co. Ill.

## GRAPE VINES.

For sale about 40,000 well-rooted grape-vine layers and rooted cuttings, comprising all the Hardy varies ties, such as Norton's Virginia Seedling, Concord, Hartford Prolific, Clinton, &c. EISENMAYER & BRO.,

CASHMERE GOATS.

I have about 30 goats for sale, some of them three-quarter Cashmere, some half Cashmere, and some of them common goats. To any one who desires to breed the Cashmere goat, a rare chance is now offered. I am about converting the farm at which I keep them, into a fruit farm, which is my reason for selling them. Or I would let them to any responsible person on shares for a term of years. For further partic-NORMAN J. COLMAN ulars, address St. Louis, Mo.

Bloomington Nursery.

15TH YEAR -8 Large Green-HOUSES, 275 ACRES FRUIT, ORNAMENTAL AND NURSERY STOCK, a very complete assort-

AND NURSERY STUCE, a 100, 1 year; 1000, \$50. 500,000 APPLE, with 100,000 1 year; 1000, \$50. 150,000 PEAR, 50,000 1 year standard; 1000, \$120. 500,000 GRAPE, largely Concord layers; Catawba, Clinton, Delaware, Hartford, Ives, Iona, Rogers, &c. 500,000 APPLE STOCKS, 1 and 2 year, \$10 & \$15. 500,000 APPLE ROOT GRAFTS, in Winter;

500,000 APPLE ROOT GRAFTS, in Winter; 10,000, \$100. 150,000 STOCKS, Quince, Pear, Plum, Cherry, &c. 10,000 RHUBARB "WINE PLANT." 100,000

Strawberry, 40 sorts.

1,000,000 OSAGE ORANGE, 1,000 1st class, \$3; 200,000, \$450.

500,000 EVERGREENS, mostly medium and small. 150,000 ORNAMENTAL TREES, large and small. 2,000 ALTHEA, superb, double named; 100, 2 feet, \$12.

10,000 Euonymus, Honeysuckle, Lilac, Snowball,

Spireas, Syringa, Tamerix, Wigelia, all fine, medium size; 100, \$6 to \$12.

20,000 ROSES, all classes, old and new sorts.

20,000 HARDY BULBS, Tulips, Hyacinths, Greenhouse Plants, &c.

red stamp each F. K. PHOENIX. Bloomington, McLean County, Illinois. Oct. 15-4t



Barnum & Brother, Missouri Agricultural Warehouse And Seed Store,

South Main protect NOK E-Gir have a doors of Walnut Street. the 07

MISSOU LOUIS,



Wholesale and retail dealers in Agricultural Implements and Machines, Garden, Grass & Field Seeds. Agents for Celebrated Victor SORGHUM Mills and Cook's SORGHUM Evaporators. These Mills and Evaporators have universally received the stamp of public approval, and we invite all interested to call and examine.

ALSO AGENTS FOR

CHAMPION of OHIO Reapers VANDIVER'S Mo. Corn Planter, Also on hand various patterns of and Mowers.

BUCKEYE Wheat Drill. BUCKEYE Cider Mill. BUCKEYE Cultivator.

ALLEN'S COTTON PLANTER,

Powers.

Cutting Boxes, Corn Shellers, Cotton Gins, &c.

PITTS' Threshers and Horse Missouri FAMILY WASHING Machine and Wringer.

# Barnum & Bro., 25 South Main St., 3 doors north of Walnut.

#### NATIVE WINES.

Norton's Virginia, Concord, Herbemont, Delaware, Cunningham, Cassady, Clinton, Hartford Prolific and Catawba, by the case, containing I dozen bottles each. Norton's Virginia, Concord and Catawba, al-

sub by the keg, barrel or eask.

As these wines were all grown on my own vineyards, and carefully managed, I can warrant them to be of superior quality and to give general satisfac-

Sample cases, containing one dozen bottles assort fall the above varieties, will be put up if desired. Address, GEO. HUSMANN, Hermann, Mo.

#### PRICE LIST OF WINES.

Grown by

GEORGE HUSMANN, GRAPE HILL VINE-VARDS, NEAR HERMANN, MO.

of one dozen bottles each

٠.	CHACK OF ONE OF COLOR POLICE			
	Norton's Virginia, first qualit	у.	\$18.00	
	Concord, first quality,		12.00	
	Concord, second quality, very	good,	10.00	
	Herbemont, first quality,		18.00	
	Delaware, first quality,		24.00	
	Cunningham, first quality,		18.00	
	Cassady, first quality,		12.00	
	Clinton,		10.00	
	Hartford Prolific.		16.00	
	Catawba, first quality.		10.00	
	Catawba, second quality, ver	y fair,	\$ 8.50	

In casks, in quantities under forty gallons-Norton's Virginia, first quality, \$4.50 % gallon. Concord, first quality, Concord, second quality, Catawba, first quality, Catawba, second quality, Herbemont, first quality, 3.00 2.50 2.00 In quantities over forty gallons-

Norton's Virginia, first quality, 4.00 "
Concord, first quality, 2.50 "
Concord, second quality, 2.00 "
Catawba, first quality, 2.00 "
Catawba, first quality, 1.75 "
As these wines were all grown on my own vineyards and carefully managed, I can warrant them to be of superior quality, and have nodoubt but they will give general satisfaction.

GEO. HUSMANN. jy-tf

DR. JACKSON'S

The great remedy for Coughs, Colds, Sore Throat, Hoarseness, Spitting of Blood, Soreness of the

# CHEST AND LUNGS,

AND

#### Consumption.

This old tried medicine stands higher in reputation than all others; its effects are prompt and certain, and it has cured more bad cases than all other medicines put together. Don't fail to give it a trial, and be convinced, as delays are dangerous.

Price One Dollar a bottle.

COLLINS BROTHERS.

ST. LOUIS. MO.

SOLE PROPRIETORS.

#### ITCH! ITCH!!



Will cure the ITCH or SALT RHEUM.

in a few applications. It also cures prairie Scratches, Chilblains, Ulcers and all Eruptions of the skin where other remedies have been tried in vain, cures speedily and thoroughly. Price 50 cents a box. Sold by all druggists. By sending 60 cents in a letter to COL-LINS BROTHERS, S. W. cor. 2d & Vine streets, St. Louis, Mo., it will be sent by mail free of postage.

April 15-1y.

#### CHESTER WHITE PIGS.

A few pairs of Chester White Pigs on hand, boxed and shipped to any address, without further charge, on receipt of thirty dollars per pair or fifteen dollars on receipt of thirty dollars per pair or fifteen dollars each either sex. Also, some crosses of the Yorkshire and Chester White at same price. Address,

NORMAN J. COLMAN, St. Louis, Mo.

## TEXAS OSAGE ORANGE

-New, well cleaned and WARRANTED GOOD. Price, \$1 per pound; \$20 per bushel; 6 bushels for \$100; for 10 bushels and over, \$15 per bushel. Old seed at half price. Cash to accompany order. We will also contract to grow No. 1 Osage Plants next season for \$1,000 per million, to be delivered in the fall at the nursery—25 cts. per thousand to be paid at time of contracting.

We are devoting special attention to the importa-tion of the seed and growing the plants of the Osage Orange.

Apple Root Grafts put up to order, \$10 per 1,000; Address, W. H. MANN & BRO., 12,000 for \$100.

Box 1, Normal, McLean Co., Ill.

P.S .- 50 bushels Apple Seed wanted. Oct. 15-40

## Victoria and Linnæus Rhubarb, or Wine Plant.

Also, CAHOON'S and SCOTCH HYBRID RHU-BARB.

C. D. STEVENS, Oct. 15-41 Mendota, LaSalle Co., Ill.

#### GIVEN CAMPBELL,

## Attorney at Law,

No. 5, Commercial Place,

NEW ORLEANS, LA.

W. L. Ewing. D. A. January. Rob't Campbell & Co. oely N Colman.